

FEDERAL REGISTER

VOLUME 30 • NUMBER 25

Saturday, February 6, 1965 • Washington, D.C.

PART II
Section 2

Department of Commerce
Bureau of International Commerce

10th General Revision of Export Regulations

(Continued)



PART 399—COMMODITY CONTROL LIST AND RELATED MATTERS

- Sec.
 399.1 Commodity Control List.
 399.2 Commodity interpretations.
 399.3 [Reserved]
 399.4 Licensing division jurisdiction over processing codes.

AUTHORITY: The provisions of this Part 399 issued under sec. 3, 63 Stat. 7; 50 U.S.C. App. 2023; E.O. 10945, 26 F.R. 4487; E.O. 11038, 27 F.R. 7003.

§ 399.1 Commodity Control List.

GENERAL NOTES TO COMMODITY CONTROL LIST

(a) *Export control commodity number.* Commodities are listed in numerical order by Export Control Commodity numbers, which appear in the first column of the Commodity Control List. These numbers have either three or five digits and correspond with the first three or five digit numbers shown in the Department of Commerce publication, *Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States*, and must be shown on all export license applications.

(b) *Commodity description—(1) Partial coverage of Export Control Commodity number.* Where the commodity description of an entry on the Commodity Control List mentions only a part of the commodities covered by an Export Control Commodity number, only the commodity or commodities specifically mentioned are included in that entry.

EXAMPLE: The Commodity Control List shows two entries under Export Control Commodity No. 25150. One entry covers the commodity description "Cotton pulp" and requires a validated license for shipments to Country Groups Y and Z; while the other entry covers the commodity description "Pulp other than cotton pulp" and requires a validated license for shipments to Country Group Z only. Therefore, cotton pulp may be exported to Country Groups T, V, W, and X without a validated export license; how-

ever, other types of pulp may be exported to Country Groups T, V, W, X, and Y without a validated export license.

(2) *Unnumbered captions.* The unnumbered captions set forth in the "Commodity Description" column serve only to identify the broad categories of commodities within which the numbered commodities are to be found in the Commodity Control List.

(c) *Quantity classifications.* The quantity classification given for each commodity in the "Unit" column must be shown on export license applications. If there is no entry in the unit column, the application should show the unit of quantity commonly used in the trade.

(d) *Commodity processing codes.* The commodity processing codes, referred to in the "Processing Code and Related Commodity Group No." column, are used to facilitate the routing and processing of export license applications within the Office of Export Control. Related commodities are commodities which have the same processing code symbol and the same number following such symbol.

For each entry there is a four-letter symbol (e.g., GIEQ, STEE, TRAN), known as the processing code, which must be shown on the application for export license. In most cases this symbol is followed by a number, which is known as the related commodity group number. This number, which also must be shown on the application, indicates that all entries having the same processing code and number may be entered on a single application for export license. (For complete information on the inclusion of related commodities on a single application, see paragraph 372.5(e).)

Commodity processing codes, arranged in three groups corresponding to the three product divisions in the Office of Export Control that license the commodities, are shown in § 399.4.

(e) *Validated license required.* A validated license is required for exportation of a commodity to any destination included in a country group, the symbol of which appears in the column headed "Validated License

Required for Country Groups Shown Below." In a few cases a footnote in this column will indicate that a validated license is required for exportation of a commodity to a specified destination in addition to a country group.

A validated license is not required if the exportation may be made under one of the general licenses, as set forth in Part 371, or under other provisions permitting the exportation without a license. Any exportation for which a validated license is not required by the information set forth in this column may be made under the provisions of General License G-DEST. (See § 371.7.)

(f) *GLV dollar value limits.* The column headed "GLV \$ Value Limits for Shipment to Country Groups T, V, and X" has reference to the dollar-value limits of commodities which may be exported to Country Group T, V, or X, under the provisions of General License GLV. (See § 371.10.) A dash (-) indicates that the commodity may not be exported under General License GLV to the Country Group heading the column; however, in some of these instances an unlimited quantity of the commodities may be exported under General License G-DEST (see § 371.7).

(g) *Definitions—(1) Abbreviation "n.e.c."* The abbreviation "n.e.c." appearing in various entries on the Commodity Control List means "not elsewhere classified."

References on the Commodity Control List to Special Provisions

Under each commodity section heading on the Commodity Control List, there are references to the sections of the Comprehensive Export Schedule which contain special provisions for any commodity in that commodity section. The sections referred to are arranged in Part 373, Licensing Policies and Related Special Provisions, under commodity section headings which correspond with those on the Commodity Control List. (See "How to Use Part 373" preceding Part 373.)

Individual entries subject to some of these special provisions, as well as commodities subject to special types of licenses, are identified by a letter symbol in the last column on the Commodity Control List (see page 3 of General Notes).

EXPLANATION OF SYMBOLS AND DESIGNATIONS ON THE COMMODITY CONTROL LIST

A validated license is required for a commodity exported to a country group listed in this column unless the shipment may be made to the indicated country group under the provisions of a general license, e.g., General License GLY. A validated license is not required for shipments to Canada intended for consumption in Canada unless so indicated by a footnote in this column.

A dash (—) indicates that the commodity may not be exported under General License GLV to the country group heading the column (see § 371.10). In some instances an unlimited quantity of the commodity may be exported under the provisions of General License G-DEST (§ 371.7).

These columns show the dollar-value limits of shipments which may be made under General License GLY to the country group heading the column (see § 371.10).

\$500 value of liquid polymers may be exported to Group T countries under the provisions of General License GLV (see § 371.10).

Export Control Commodity Numbers contain either three or five digits and correspond with the initial digits of Schedule B Nos.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions Lists
				T	V	X	
23120 Alkyl polysulfide liquid polymers	Lb.	RUBR 1	TVWXYZ	500	—	—	A
23120 Copolymers of methyl vinyl-pyridine and butadiene	Lb.	RUBR 2	VWXYZ	—	25	—	E-1
23120 Synthetic rubbers, cis-types (for example, cis-polyisoprene and cis-polybutadiene).....	Lb.	RUBR 8	WXYZ	—	—	25	B
23120 Other synthetic rubbers, excluding neoprene (polymers of chloroprene).....	Lb.	RUBR 8	XYZ	—	—	25	B
23130 Reclaimed rubber (natural and synthetic)	Lb.	RUBR 8	YZ	—	—	—	B
26662 Continuous filament tow wholly made of fluorocarbon polymers and copolymers. (Specify by name)	Lb.	RESN 1	TVWXYZ	500	25	—	AE-3
27698 Other non-metallic minerals .....	.....	MINL 8	Z	—	—	—	B

A—Subject to import certificate/delivery verification procedure (see § 373.2).

E—Periodic Requirements licensing procedure is applicable (see § 376.2 for PRL commodity groups).

B—Used throughout the regulations to indicate the applicability of certain provisions set forth in the regulations.

"Specify by name" means that the license application must name each item of manufacture proposed for shipment.

Licensed in terms of total dollar value (see § 372.11(b)).

Commodity processing code (see Part 399.1, page 1).

Related commodity group number (see Part 399.1, page 1).

Since only the symbol "Z" appears in this entry, unlimited quantities of this commodity may be exported to Country Groups T, V, W, X, and Y without the need for obtaining a validated license (see General License G-DEST, § 371.7).

Where the commodity description of an entry mentions only a part of the commodities covered by an Export Control Commodity Number, only the commodity or commodities specifically mentioned in that entry are subject to the export controls for that entry.

The foreign countries of the world are divided into Canada and six country groups (Country Groups T, V, W, X, Y and Z). § 370.1(g) lists the countries in each of the country groups.

COMMODITY SECTIONS AND SUB-SECTIONS

Export Control Commodity classifications are divided into major Sections which in turn are subdivided into Sub-Sections of related commodities. Below are the titles of the Sections and Sub-Sections appearing on the Commodity Control List, and initial page number of each Section and Sub-Section.

Section Number	Commodity Section and Sub-Section	Commodity Control List Page No.
0	Food and Live Animals	CCL-1
	Live animals	CCL-1
	Meat and meat preparations.....	CCL-1
	Dairy products and eggs.....	CCL-1
	Fish and fish preparations.....	CCL-1
	Cereals and cereal preparations.....	CCL-1
	Fruits and vegetables.....	CCL-2
	Sugar, sugar preparations, and honey.....	CCL-2
	Coffee, tea, cocoa, spices, and manufactures thereof.....	CCL-3
	Feeding-stuff for animals (not including unmilled cereals).....	CCL-3
	Miscellaneous food preparations.....	CCL-3
1	Beverages and Tobacco	CCL-4
	Beverages	CCL-4
	Tobacco and tobacco manufactures.....	CCL-4
2	Crude Materials, Inedible, Except Fuels	CCL-4
	Hides, skins, and fur skins, undressed.....	CCL-4
	Oil-seeds, oil nuts, and oil kernels (including their flours and meals).....	CCL-4
	Crude rubber (including synthetic and reclaimed) and similar natural gums.....	CCL-5
	Wood, lumber, and cork.....	CCL-5
	Pulp and waste paper.....	CCL-7
	Textile fibers (not manufactured into yarn, thread, or fabrics) and their waste.....	CCL-7
	Crude fertilizers and crude minerals (excluding coal, petroleum, and precious stones).....	CCL-8
	Metalliferous ores and metal scrap.....	CCL-9
	Crude animal and vegetable materials, n.e.c.....	CCL-11
3	Minerals, Fuels, Lubricants, and Related Products	CCL-12
	Coal, coke, and briquets (including peat).....	CCL-12
	Petroleum and petroleum products.....	CCL-12
	Gas, natural and manufactured.....	CCL-15
4	Animal and Vegetable Oils and Fats	CCL-15
	Animal oils and fats.....	CCL-15
	Fixed vegetable oils and fats.....	CCL-15
	Animal and vegetable oils and fats, processed, and waxes of animal or vegetable origin.....	CCL-15
5	Chemicals	CCL-16
	Chemical elements and compounds.....	CCL-16
	Mineral tar and crude chemicals from coal, petroleum, and natural gas.....	CCL-25
	Dyeing, tanning, and coloring materials.....	CCL-25
	Medicinal and pharmaceutical products.....	CCL-26
	Essential oils and perfume materials; toilet, polishing, and cleansing preparations.....	CCL 30
	Fertilizers, manufactured	CCL-31
	Explosives and pyrotechnic products (including hunting and sporting ammunition)...	CCL-31
	Plastic materials, regenerated cellulose, and artificial resins.....	CCL-31
	Chemical materials and products, n.e.c.....	CCL-33

Commodity Control List

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Section Number	Commodity Section and Sub-Section	Commodity Control List Page No.
6	Manufactured Goods Classified Chiefly by Material Leather, leather manufactures, n.e.c. and dressed fur skins..... Rubber manufactures, n.e.c..... Wood and cork manufactures (excluding furniture)..... Paper, paperboard, and manufactures thereof..... Textile yarn, fabrics, made-up articles and related products..... Non-metallic mineral manufactures, n.e.c..... Iron and steel..... Non-ferrous metals..... Manufactures of metals, n.e.c.....	CCL-36 CCL-36 CCL-36 CCL-38 CCL-39 CCL-41 CCL-49 CCL-54 CCL-66 CCL-74
7	Machinery and Transport Equipment Machinery, other than electric..... Electrical machinery, apparatus, and appliances..... Transport equipment.....	CCL-80 CCL-80 CCL-117 CCL-158
8	Miscellaneous Manufactured Articles Sanitary, plumbing, heating, and lighting fixtures and fittings..... Furniture..... Travel goods, handbags, and similar articles..... Clothing..... Footwear..... Professional, scientific, and controlling instruments; photographic and optical goods, watches, and clocks..... Miscellaneous manufactured articles, n.e.c.....	CCL-165 CCL-165 CCL-166 CCL-166 CCL-166 CCL-169 CCL-169 CCL-181
9	Commodities and Transactions Not Classified According to Kind	CCL-188

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipments to Country Groups			Special Provisions List
				T	V	X	
SECTION O—FOOD AND LIVE ANIMALS							
LIVE ANIMALS							
001 Live Animals	No.	AGRI 8	Z	—	—	—	B
MEAT AND MEAT PREPARATIONS							
011 Meat, fresh, chilled or frozen.....	Lb.	AGRI 8	Z	—	—	—	B
012 Meat, dried, salted or smoked.....	Lb.	AGRI 8	Z	—	—	—	B
013 Prepared meat and poultry products and preparations, n.e.c., whether or not in airtight con- tainers.	Lb.	AGRI 8	Z	—	—	—	B
DAIRY PRODUCTS AND EGGS							
022 Milk and cream.....	Lb. ¹	AGRI 8	YZ	—	—	—	B
023 Butter	Lb.	AGRI 8	YZ	—	—	—	B
024 Cheese and curd.....	Lb.	AGRI 8	YZ	—	—	—	B
02501 Eggs	Lb. ²	AGRI 8	Z	—	—	—	B
FISH AND FISH PREPARATIONS							
031 Fish, including shellfish, fresh and simply preserved.	Lb.	AGRI 8	Z	—	—	—	B
032 Fish, including shellfish, canned, n.e.c., and fish preparations.	Lb.	AGRI 8	Z	—	—	—	B
CEREALS AND CEREAL PREPARATIONS							
04100 Wheat (including spelt or meslin), unmilled.	Bu.	AGRI 8	YZ	—	—	—	B
04220 Rice, milled or unmilled.....	Lb.	AGRI 8	YZ	—	—	—	B
04300 Barley, unmilled	Lb.	AGRI 8	YZ	—	—	—	B
04400 Unmilled corn, <i>excluding seed</i>	Bu.	AGRI 8	YZ	—	—	—	B
04400 Inbred corn seed.....	Bu.	AGRI 8	YZ ³	—	—	—	B
04400 Corn seed, other than inbred.....	Bu.	AGRI 8	Z	—	—	—	B
045 Cereals, unmilled other than wheat, rice, bar- ley and corn.	Lb. ⁴	AGRI 8	YZ ³	—	—	—	B
046 Wheat flour, meal and groats.....	Cwt.	AGRI 8	YZ	—	—	—	B
047 Cereal flours, meal, and groats, <i>excluding wheat</i> .	Lb. ⁵	AGRI 8	YZ	—	—	—	B
04811 Breakfast cereals prepared for cooking....	Lb.	AGRI 8	YZ	—	—	—	B
04812 Breakfast cereals prepared for serving....	Lb.	AGRI 8	YZ	—	—	—	B
04820 Malt and malt flour.....	Lb.	AGRI 8	YZ	—	—	—	B
04830 Macaroni, noodles, and similar products....	Lb.	AGRI 8	YZ	—	—	—	B
04840 Bakery products. (Specify whether or not frozen.)	Lb.	AGRI 8	YZ	—	—	—	B

¹ Report shipments of fresh milk and cream in gallons.² Report shipments of eggs in the shell in "dozen."³ Inbred corn seed and inbred grain sorghum seed also require validated licenses for shipments to Rumania.⁴ Report shipments of rye, oats, and grain sorghums in "bushels."⁵ Report shipments of cereal flours, corn meal, oatmeal, and groats (except as prepared breakfast cereal) in "hundred weight."

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04881-06190

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipments to Country Groups			Special Provisions List
				T	V	X	
04881 Malt extract	Lb.	AGRI 8	Z	—	—	—	B
04884 Preparations of flour, starch or malt extract, used as infant food or for dietetic or culinary pur- poses, <i>except baby food custards and puddings, dry milk base.</i>	Lb.	AGRI 8	YZ	—	—	—	B
04884 Baby food custards and puddings, dry milk base.	Lb.	AGRI 8	Z	—	—	—	B
FRUIT AND VEGETABLES							
051 Fruit, fresh, and nuts (not including oil nuts), fresh or dried.	Lb.	AGRI 8	Z	—	—	—	B
052 Dried fruit (including artificially dehydrated).	Lb.	AGRI 8	Z	—	—	—	B
05320 Glace, candied, and crystallized fruits, fruit peel, nuts, and parts of plants.	Lb.	AGRI 8	Z	—	—	—	B
05330 Jams, marmalades, fruit jellies, fruit pulps, purees and pastes.	Lb.	AGRI 8	Z	—	—	—	B
05350 Fruit and vegetables (except tomato juice), juices, whether or not in airtight containers, frozen, concentrated, hot pack, or canned, n.e.c.	Gal.	AGRI 8	Z	—	—	—	B
05370 Fruit, frozen	Lb.	AGRI 8	Z	—	—	—	B
05389 Fruits prepared or preserved in airtight con- tainers, including baby food, n.e.c.	Lb.	AGRI 8	Z	—	—	—	B
05389 Peanuts, roasted or otherwise prepared, <i>ex- cept salted</i> [Report peanuts, green, in Export Con- trol Commodity No. 22110].	Lb.	AGRI 8	YZ	—	—	—	B
05389 Other fruit and nuts, preserved, n.e.c.	Lb.	AGRI 8	Z	—	—	—	B
05410 Potatoes, fresh (except sweet potatoes)	Lb.	AGRI 8	Z	—	—	—	B
05420 Beans, peas and other leguminous vegetables, dried, <i>except seed beans and seed peas.</i>	Lb.	AGRI 8	YZ	—	—	—	B
05420 Seed beans; and seed peas	Lb.	AGRI 8	Z	—	—	—	B
05440 Tomatoes, fresh	Lb.	AGRI 8	Z	—	—	—	B
05450 Vegetables, fresh (except tomatoes, potatoes, roots and tubers).	Lb.	AGRI 8	Z	—	—	—	B
05460 Vegetables, frozen	Lb.	AGRI 8	Z	—	—	—	B
05484 Hops	Lb.	AGRI 8	Z	—	—	—	B
05488 Vegetable products, roots and tubers, fresh or dried, n.e.c.	Lb.	AGRI 8	Z	—	—	—	B
055 Vegetables, roots and tubers, preserved or prepared, dehydrated (including canned baby food, except corn).	Lb.	AGRI 8	Z	—	—	—	B
SUGAR, SUGAR PREPARATIONS, AND HONEY							
06130 Sugar, beet, and cane, raw or refined.	Lb.	AGRI 8	XYZ	—	—	25	B
06160 Honey, natural	Lb.	AGRI 8	Z	—	—	—	B
06180 Molasses (including flavored or colored)	Lb.	AGRI 8	Z	—	—	—	B
06190 Sugars and syrups, excluding pharmaceu- tical.	Lb.	AGRI 8	Z	—	—	—	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipments to Country Groups			Special Provisions List
				T	V	X	
06201 Sugar, confectionary, not containing cocoa..	Lb.	AGRI 8	Z	—	—	—	B
06202 Maple sugar	Lb.	AGRI 8	YZ	—	—	—	B
06202 Other flavored or colored sugar and syrups..	Lb.	AGRI 8	Z	—	—	—	B
COFFEE, TEA, COCOA, SPICES, AND MANUFACTURES THEREOF							
071 Coffee	Lb.	AGRI 8	Z	—	—	—	B
072 Cocoa	Lb.	AGRI 8	Z	—	—	—	B
073 Chocolate and other food preparations con- taining cocoa or chocolate, n.e.c.	Lb.	AGRI 8	Z	—	—	—	B
074 Tea and mate.....	Lb.	AGRI 8	Z	—	—	—	B
075 Spices.....	Lb.	AGRI 8	Z	—	—	—	B
FEEDING STUFF FOR ANIMALS (NOT INCLUDING UNMILLED CEREALS)							
08110 Fodder, green or dry, of vegetable origin, <i>ex- cept apple pomace, fruit pulp, kelp meal, pigeon grits, and rat chow.</i>	S. ton	AGRI 8	YZ	—	—	—	B
08110 Fodder of apple pomace, fruit pulp, kelp meal, pigeon grits, and rat chow.	S. ton	AGRI 8	Z	—	—	—	B
08120 Bran (including rice, corn, and wheat by- products), pollard and other by-products from working of cereal grains and leguminous vegeta- bles.	S. ton	AGRI 8	YZ	—	—	—	B
08130 Oil seed cake and meal and other vegetable oil residues.	S. ton	AGRI 8	YZ	—	—	—	B
08140 Meat meal (including tankage) and fish meal, unfit for human consumption	S. ton	AGRI 8	Z	—	—	—	B
08195 Wine lees; and argol.....	.....	ORGN 8	XYZ	—	—	25	B
08195 Foodwastes, n.e.c.	S. ton	AGRI 8	Z	—	—	—	B
08199 Feather meal	S. ton	AGRI 8	YZ	—	—	—	B
08199 Prepared animal feeds, <i>except feather meal, pigeon meal, and rat chow.</i>	S. ton	AGRI 8	Z	—	—	—	B
MISCELLANEOUS FOOD PREPARATIONS							
09100 Prepared edible fats.....	Lb.	AGRI 8	Z	—	—	—	B
09100 Margarine of vegetable or animal origin; and shortening and other prepared edible fats, <i>except those with chief weight animal fat.</i>	Lb.	AGRI 8	YZ	—	—	—	B
09100 Other margarine or shortening, n.e.c.....	Lb.	AGRI 8	Z	—	—	—	B
09903 Mustard flour and prepared mustard.....	Lb.	AGRI 8	Z	—	—	—	B
09904 Mayonnaise; and other salad dressings....	Lb.	AGRI 8	YZ	—	—	—	B
09904 Tomato sauces, meat sauces and other sauces and mixed seasonings.	Lb.	AGRI 8	Z	—	—	—	B
09905 Soups and broths.....	.....	AGRI 8	Z	—	—	—	B
09906 Natural yeasts and prepared baking powder.	Lb.	AGRI 8	Z	—	—	—	B
09907 Vinegar and vinegar substitutes.....	Gal.	AGRI 8	Z	—	—	—	B
09910 Other food preparations, n.e.c.....	AGRI 8	Z	—	—	—	B

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11100-22160

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipments to Country Groups			Special Provisions List
				T	V	X	
SECTION 1—BEVERAGES AND TOBACCO							
BEVERAGES							
11100 Beverages ready for consumption, based on milk and cocoa.	.....	AGRI 8	YZ	—	—	—	B
11100 Bottled and canned soft drinks; mineral water.	Gal.	AGRI 8	Z	—	—	—	B
11100 Other nonalcoholic beverages, n.e.c.....	.....	AGRI 8	YZ	—	—	—	B
112 Alcoholic beverages	Gal. ¹	AGRI 8	Z	—	—	—	B
TOBACCO AND TOBACCO MANUFACTURES							
121 Leaf tobacco, stemmed and unstemmed, and unmanufactured tobacco, n.e.c.	Lb.	AGRI 8	YZ	—	—	—	B
122 Tobacco manufactures.....	Lb. ²	AGRI 8	Z	—	—	—	B
SECTION 2—CRUDE MATERIALS, INEDIBLE, EXCEPT FUELS							
HIDES, SKINS AND FUR SKINS, UNDRESSED							
21110 Cattle hides	No.	AGRI 8	Z	—	—	—	B
21110 Equine hides	No.	AGRI 8	Z	—	—	—	B
21120 Calf skins and kip skins.....	No.	AGRI 8	Z	—	—	—	B
21140 Goat skins and kid skins.....	No.	AGRI 8	Z	—	—	—	B
21160 Sheep and lamb skins, with wool on; fur skins.	No.	AGRI 8	Z	—	—	—	B
21170 Sheep and lamb skins, without wool, <i>excluding fur skins</i> .	No.	AGRI 8	Z	—	—	—	B
21180 Leather dust, powder and flour.....	.....	AGRI 8	YZ	—	—	—	B
21180 Other waste of hides and skins and used leather.	.....	AGRI 8	Z	—	—	—	B
21190 Hides and skins, undressed.....	.....	AGRI 8	Z	—	—	—	B
21200 Fur skins, undressed.....	No.	AGRI 8	Z	—	—	—	B
OILSEEDS, OIL NUTS, AND OIL KERNELS							
22105 Oil seeds, oil nuts, and oil kernels, <i>excluding oriental mustard seed</i> . [Report peanuts in Export Control Commodity No. 22110, soybeans in Export Control Commodity No. 22140, flaxseed in Export Control Commodity No. 22150, cottonseed in Export Control Commodity No. 22160.]	.....³	AGRI 8	YZ	—	—	—	B
22105 Oriental mustard seed.....	.....	AGRI 8	Z	—	—	—	B
22110 Peanuts (groundnuts), green, shelled or unshelled.	Lb.	AGRI 8	Z	—	—	—	B
22140 Soybeans.....	Bu.	AGRI 8	Z	—	—	—	B
22150 Flaxseed (linseed)	Bu.	AGRI 8	Z	—	—	—	B
22160 Cottonseed	Lb.	AGRI 8	Z	—	—	—	B

¹ Report wines in "wine gallon" and distilled alcoholic beverages in "proof gallon."
² Report cigars, cheroots, cigarillas and cigarettes in "thousand."
³ Report safflower seed in "pound."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
22190 Flour and meal of oilseeds, oil nuts and oil kernels, non-defatted, <i>excluding mustard flower</i>	.....	AGRI 8	Z	—	—	—	B
CRUDE RUBBER (INCLUDING SYNTHETIC AND RECLAIMED)							
23110 Crude natural rubber and similar natural gum, <i>excluding balata, gutta-percha, and other crude allied gums.</i>	Cont. Lb.	RUBR 8	XYZ	—	—	25	B
23110 Balata, gutta-percha, and crude (natural rubber and allied gums.	Lb.	RUBR 8	Z	—	—	—	B
Synthetic rubber and rubber substitutes:							
23120 Alkyl polysulfide liquid polymers.....	Lb.	RUBR 1	TVWXYZ	500	—	—	A
23120 Carboxyl terminated polybutadiene.....	Lb.	RUBR 1	TVWXYZ	500	—	—	A
23120 Fluorinated synthetic rubbers; and fluoro-carbon elastomers (polymers and copolymers). (Specify by name.) (See § 399.2, Interpretation 22.) [Report fluorinated silicone rubbers in Export Control Commodity No. 58110.]	Lb.	RUBR 1	TVWXYZ	500	25	—	A
23120 Moldable copolymers of butadiene and acrylic acid.	Lb.	RUBR 1	TVWXYZ	500	—	—	A
23120 Moldable terpolymers of butadiene, acrylonitrile and acrylic acid or any of the homologues of acrylic acid.	Lb.	RUBR 1	TVWXYZ	500	—	—	A
23120 Alkyl polysulfide rubbers, <i>excluding liquid polymers.</i>	Lb.	RUBR 2	VWXYZ	—	500	—	E-1
23120 Copolymers of methyl vinyl-pyridine and butadiene.	Lb.	RUBR 2	VWXYZ	—	25	—	E-1
23120 Synthetic rubbers, cis-types (for example, cis-polyisoprene, and cis-polybutadiene).	Lb.	RUBR 8	WXYZ	—	—	25	B
23120 Other synthetic rubbers, <i>excluding neoprene (polymers of chloroprene).</i>	Lb.	RUBR 8	XYZ	—	—	25	B
23120 Neoprene (polymers of chloroprene).	Lb.	RUBR 8	YZ	—	—	—	B
23130 Reclaimed rubber (natural and synthetic) ..	Lb.	RUBR 8	YZ	—	—	—	B
23140 Waste and scrap of unhardened rubber.....	Lb.	RUBR 8	XYZ	—	—	25	B
WOOD, LUMBER AND CORK							
24100 Fuel wood, wood charcoal, and wood waste..	.....	AGRI 8	Z	—	—	—	B
24210 Pulpwood, softwood and hardwood (1 cord equals 128 cubic feet stacked. [Report chipwood in Export Control Commodity No. 63183.]	CORD	AGRI 8	YZ	—	—	—	B
24221 Port Orford cedar sawlogs, veneer logs, and bolts, in the rough.	MBF	AGRI 8	YZ	—	—	—	B
24221 Douglas fir and other softwood sawlogs, veneer logs, and bolts, in the rough.	MBF	AGRI 8	Z	—	—	—	B
24222 Port Orford cedar sawlogs, veneer logs, and bolts, roughly squared, quartered, or halved.	MBF	AGRI 8	YZ	—	—	—	B
24222 Douglas fir and other softwood sawlogs, veneer logs, and bolts, roughly squared, quartered, or halved.	MBF	AGRI 8	Z	—	—	—	B

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24231-24400

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
24231 Walnut sawlogs, veneer logs, and bolts in the rough.	MBF Doyle Scale	AGRI 8	TVWXYZ ¹	500	—	—	
24231 Dogwood, persimmon, lignum vitae, and other hardwood sawlogs, veneer logs, and bolts, in the rough.	MBF	AGRI 8	Z	—	—	—	B
24232 Walnut sawlogs, veneer logs, and bolts, roughly squared, quartered, or halved.	MBF Doyle Scale	AGRI 2	TVWXYZ ¹	500	—	—	
24232 Dogwood, persimmon, lignum vitae, and other hardwood sawlogs, veneer logs, and bolts roughly squared, quartered, or halved.	MBF	AGRI 8	Z	—	—	—	B
24280 Poles, piles, posts, and other wood in the rough, including mine timber (pitprops), n.e.c.	.....²	AGRI 8	Z	—	—	—	B
24310 Railway cross ties and mine ties [Report switch and bridge ties as lumber.]	MBF	AGRI 8	Z	—	—	—	B
24321 Port Orford cedar lumber, rough, sawed, excluding quartered or halved logs, railway ties, and mine timbers.	MBF	AGRI 8	YZ	—	—	—	B
24321 Other softwood lumber, rough, sawed, excluding quartered or halved logs, railway ties, and mine timbers.	MBF	AGRI 8	Z	—	—	—	B
24322 Port Orford cedar.....	MBF	AGRI 8	YZ	—	—	—	B
24322 Other softwood lumber dressed, worked, or patterned (planed, tongued, grooved, or otherwise surface worked), including flooring.	MBF	AGRI 8	Z	—	—	—	B
24331 Walnut lumber, rough, sawed, if 2½ inches or over in thickness and 2 feet or over in length.	MBF	AGRI 2	TVWXYZ ³	100	100	—	
24331 Other hardwood lumber, rough, sawed, excluding quartered or halved logs, railway ties and mine timbers.	MBF	AGRI 8	Z	—	—	—	B
24332 Walnut lumber, dressed, worked, or patterned (planed, tongued, grooved, or otherwise surface worked), including small dimension stock, if 2½ inches or over in thickness and 2 feet or over in length.	MBF	AGRI 2	TVWXYZ ³	100	100	—	
24332 Other hardwood lumber, dressed, worked or patterned (planed, tongued, grooved, or otherwise surface worked), including hardwood small dimension stock. [Report sticks and rods suitable for shaping into tool handles and similar items in 63188.]	MBF	AGRI 8	Z	—	—	—	B
24400 Cork, raw, waste, and in blocks, plates, sheets, etc.	Lb.	AGRI 8	Z	—	—	—	B

¹ A validated export license is also required for any exportation of walnut logs, bolts, and hewn timber to Canada regardless of the value of the shipment. See §§370.2(a)(1) and 371.10(d)(3).

² Report piling in "linear feet"; and report utility line poles in "number."

³ A validated export license is also required for any exportation of this lumber to Canada where the shipment exceeds \$100. See §§370.2(a)(1) and 371.10(d)(3).

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
PULP AND WASTE PAPER							
25110 Paper, waste and old paper.....	S. Ton	TEXT 8	Z	—	—	—	B
25130 Mechanical and semi-chemical wood pulp including screenings and wood pulp n.e.c.	S. Ton	TEXT 8	YZ	—	—	—	B
25150 Cotton pulp	S. Ton	TEXT 8	YZ	—	—	—	B
25150 Pulp, other than wood pulp and cotton pulp.	S. Ton	TEXT 8	Z	—	—	—	B
25160 Chemical wood pulp, dissolving grades.....	S. Ton	TEXT 8	XYZ	—	—	25	B
25171 Sulfate wood pulp, unbleached.....	S. Ton	TEXT 8	YZ	—	—	—	B
25172 Sulfate wood pulp, bleached or semi-bleached, other than dissolving grades.	S. Ton	TEXT 8	YZ	—	—	—	B
25181 Sulfite wood pulp, unbleached.....	S. Ton	TEXT 8	YZ	—	—	—	B
25182 Sulfite wood pulp, bleached, other than dissolving grades.	S. Ton	TEXT 8	YZ	—	—	—	B
TEXTILE FIBERS (NOT MANUFACTURED INTO YARN, THREAD, OR FABRICS) AND THEIR WASTE							
26100 Raw silk, including cocoons and waste.....	Lb.	TEXT 8	Z	—	—	—	B
26201 Recovered fibers, noils, and waste, n.e.c., wholly or in chief weight wool and/or other animal hair.	Lb.	TEXT 8	YZ	—	—	—	B
26230 Fine animal hair, other than wool, not carded or combed.	Cont. Lb.	TEXT 8	YZ	—	—	—	B
26240 Sheep's and lamb's wool, not carded or combed.	Cont. Lb.	TEXT 8	YZ	—	—	—	B
26250 Animal hair, other than wool or fine hair, not carded or combed and not for brushes.	Lb.	TEXT 8	Z	—	—	—	B
26260 Wool shoddy	Lb.	TEXT 8	YZ	—	—	—	B
26270 Wool or other animal hair, carded or combed, excluding tops.	Cont. Lb.	TEXT 8	YZ	—	—	—	B
26280 Wool tops	Lb.	TEXT 8	YZ	—	—	—	B
263 Raw cotton; cotton linters; cotton waste; and carded or combed cotton (laps, sliver, and roving).	Lb. ¹	TEXT 8	YZ	—	—	—	B
Man-made fibers, except glass:							
26621 Staple wholly made of fluorocarbon polymers and copolymers. ² (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	25	—	AE-3
26621 Other man-made staple fibers, noncellulosic, not carded or combed.	Lb.	RESN 8	YZ	—	—	—	B
26622 Continuous filament tow wholly made of fluorocarbon polymers and copolymers. ² (Specify by name.)	Lb.	RESN 1	TVWXYZ	500	25	—	AE-3
26622 Other continuous filament tow, noncellulosic.	Lb.	RESN 8	YZ	—	—	—	B
26623 Nylon fibers or waste, or nylon and other man-made fibers or waste.	Lb.	RESN 8	YZ	—	—	—	B
26623 Man-made fiber tops, sliver, and roving, non-cellulosic.	Lb.	RESN 8	YZ	—	—	—	B
26623 Man-made fiber tops, sliver, and roving, cellulosic.	Lb.	RESN 8	YZ	—	—	—	B

¹ Report raw cotton and cotton linters in "pound" and "running bale."² See §399.2, Interpretation 22.

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26623-27521

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
26631 Man-made staple fibers, cellulosic, not carded or combed.	Lb.	RESN 8	YZ	—	—	—	B
26632 Acetate, rayon-viscose and cupprammonious continuous filament tow.	Lb.	RESN 8	YZ	—	—	—	B
26640 Waste of man-made fibers, not carded or combed.	Lb.	RESN 8	YZ	—	—	—	B
Old clothing and other textile articles, in bulk (including footwear and headgear); and rags:							
26700 Used, obsolete, and reject materials bearing the design of any version of the flag of the United States of America.	Lb.	TEXT 2	TVWXYZ	500	—	—	
26700 Used military clothing.....	Lb.	TEXT 8	XYZ	—	—	25	B
26700 Other rags, old clothing and textile articles in bulk, wholly or in chief weight cotton, wool, jute, or rubber (natural or synthetic).	Lb.	TEXT 8	YZ	—	—	—	B
26700 Waste of wool and of wool-like animal hair.	Lb.	TEXT 8	YZ	—	—	—	B
26700 Other old clothing and other textile articles in bulk, including footwear and headgear; and rags	Lb.	TEXT 8	Z	—	—	—	B
26800 Vegetable fibers and waste, the following only: jute; manila or abaca; and sisal or henequen.	Lb.	TEXT 8	YZ	—	—	—	B
26800 Other vegetable fibers, <i>excluding cotton</i> and waste.	Lb.	TEXT 8	Z	—	—	—	B
CRUDE FERTILIZERS AND CRUDE MINERALS (EXCLUDING COAL, PETROLEUM, AND PRECIOUS STONES)							
Fertilizers, crude:							
27110 Natural fertilizers of mineral or vegetable origin, not chemically treated.	S. Ton	AGSU 8	YZ	—	—	—	B
27120 Natural sodium nitrate.....	S. Ton	AGSU 8	XYZ	—	—	25	B
27130 Natural phosphates, whether or not ground.	S. Ton	AGSU 8	Z	—	—	—	B
27140 Potassium chloride	S. Ton	AGSU 8	XYZ	—	—	25	B
27140 Other natural potassic salts, crude.....	S. Ton ¹	AGSU 8	Z	—	—	—	B
273 Stone, sand, and gravel.....	S. Ton	MINL 8	Z	—	—	—	B
27410 Sulfur, other than sublimed, precipitated, or colloidal sulfur.	L. Ton	SALT 8	XYZ	—	—	25	B
27420 Iron pyrites, unroasted.....	S. Ton	SALT 8	XYZ	—	—	25	B
Natural abrasives (including industrial diamonds):							
27510 Synthetic diamonds suitable only for industrial use.	Carat	FINP 2	TVWXYZ	500	—	—	
27510 Natural abrasive, including industrial diamonds	Carat	FINP 8	WXYZ	—	—	25	B
27521 Synthetic diamond powder.....	Carat	FINP 2	TVWXYZ	500	—	—	
27521 Natural diamond powder.....	Carat	FINP 8	WXYZ	—	—	25	B
27521 Dust and powder of other natural or synthetic precious or semi-precious stones.	Carat	FINP 8	XYZ	—	—	25	B

¹ Report building and monumental stone, under Export Control Commodity No. 27310, in "cubic feet."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
27522 Diatomaceous earth	S. Ton	MINL 8	Z	—	—	—	B
27523 Pumice stone, emery, natural corundum, and other natural abrasives, crude, crushed or ground.	Lb.	MINL 8	XYZ	—	—	25	B
27610 Natural asphalt and natural bitumen and other crude materials.	L. Ton	MINL 8	Z	—	—	—	B
27621 Mullite grains and pellets, natural and syn- thetic.	S. Ton	MINL 8	XYZ	—	—	25	B
27621 Other clay and similar refractory materials n.e.c.	S. Ton	MINL 8	Z	—	—	—	B
27621 Bentonite clay, including calcined.	L. Ton	MINL 8	Z	—	—	—	B
27622 Natural graphite	S. Ton	MINL 8	YZ	—	—	—	B
27623 Dolomite	S. Ton	MINL 8	Z	—	—	—	B
27624 Magnesite and magnesia, crude, <i>excluding</i> <i>dead-burned.</i>	Lb.	MINL 8	YZ	—	—	—	B
27624 Magnesite, dead burned.	Lb.	MINL 8	Z	—	—	—	B
27630 Salt	S. Ton	AGRI 8	YZ	—	—	—	B
27640 Asbestos, unmanufactured	S. Ton	MINL 8	YZ	—	—	—	B
27652 Mica, unmanufactured	Lb.	MINL 8	Z	—	—	—	B
27654 Feldspar, fluorospar, leucite, nepheline, and nepheline syenite.	Lb.	MINL 8	Z	—	—	—	B
27655 Natural quartz. [Report piezoelectric quartz in Export Control Commodity No. 67700.]	S. Ton	MINL 8	XYZ	—	—	25	B
27655 Natural cryolite; and natural chiolite.	S. Ton	MINL 8	YZ	—	—	—	B
27655 Quartzite	S. Ton	MINL 8	Z	—	—	—	B
27660 Wood ash; and bone ash, <i>excluding animal</i> <i>black.</i>	S. Ton	AGSU 8	XYZ	—	—	25	B
27660 Other slag, dross, scalings, and similar waste, n.e.c.	S. Ton	MINL 8	Z	—	—	—	B
27695 Natural talc, soapstone, and prophyllite. . .	S. Ton	MINL 8	Z	—	—	—	B
27698 Crude natural borates and other crude boron materials (including but not limited to colemanite, pandermite, kernite, and ulexite). (Specify by name.)	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
27698 Molybdenum oxide. (Specify molybdenum content.)	Cont. Lb.	MINL 4	TVWXYZ	500	500	—	
27698 Calcium silicate; Epsom salts; kieserite, nat- ural; magnesium sulphate, natural; and sodium sulphate, natural.	.....	SALT 8	YZ	—	—	—	B
27698 Cerium ores and concentrates; and other rare ores and concentrates.	.....	MINL 8	YZ	—	—	—	B
27698 Other nonmetallic materials, n.e.c., <i>excluding</i> <i>amber; natural arsenio sulphides; natural barium</i> <i>carbonate; natural barium sulphate; chalk; earth</i> <i>colors; jet; and meerschaum.</i>	.....	MINL 8	YZ	—	—	—	B
27698 Other non-metallic minerals. . . . .	.....	MINL 8	Z	—	—	—	B
METALLIFEROUS ORES AND METAL SCRAP							
28100 Iron ore and concentrates.	S. Ton	STEE 8	YZ	—	—	—	B
28200 Iron and steel scrap of magnetic materials. .	S. Ton	STEE 1	TVWXYZ	500	100	—	A

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28200-28402

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
28200 Terne plated scrap.....	S. Ton	TNPL 8	WXYZ	—	—	25	B
28200 Other iron and steel scrap including tin plated scrap.	S. Ton	STEE 8	WXYZ	—	—	25	B
Ores and concentrates of non-ferrous base metals:							
28311 Copper ores and concentrates.....	Cont. S. Ton	NONF 6	TVWXYZ	500	500	—	E-7
28312 Copper matte	Cont. S. Ton	NONF 6	TVWXYZ	500	500	—	E-7
28330 Bauxite	L. Ton	NONF 8	YZ	—	—	—	B
28370 Manganese ores and concentrates containing over 10 percent manganese	S. Ton	MINL 8	Z	—	—	—	B
28380 Lead and zinc ores and concentrates.....	Cont. Lb.	NONF 8	Z	—	—	—	B
28391 Chromium ores and concentrates.....	Lb.	MINL 8	Z	—	—	—	B
28392 Tungsten ores and concentrates.....	Lb.	MINL 8	YZ	—	—	—	B
28393 Lithium ores and concentrates, for example, ambligonite and lepidolite).	Lb.	MINL 1	TVWXYZ	500	25	—	A E-7
28393 Tantalum ores and concentrates.....	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
28393 Molybdenum ores and concentrates.....	Cont. Lb.	MINL 4	TVWXYZ	500	500	—	E-7
28393 Vanadium ores and concentrates.....	Cont. Lb.	MINL 8	XYZ	—	—	25	B
28393 Titanium or zirconium ores and concentrates.	Lb.	MINL 8	YZ	—	—	—	B
28398 Antimony ores and concentrates.....	Lb.	MINL 8	Z	—	—	—	B
28398 Beryllium ores and concentrates.....	Lb.	MINL 1	TVWXYZ	500	500	—	A E-7
28398 Cobalt ores and concentrates.....	Lb.	MINL 6	TVWXYZ	500	100	—	B
28398 Columbium or niobium ores and concen- trates.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
28398 Nickel ore and concentrates.....	Lb.	MINL 6	TVWXYZ	500	500	—	E-7
28398 Quicksilver or mercury ores and concentrates	Lb.	MINL 2	TVWXYZ	500	100	—	E-7
28398 Rhenium concentrates	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
28398 Tin ore and concentrates.....	Lb.	MINL 8	Z	—	—	—	B
28398 Other ores and concentrates of non-ferrous base metals, n.e.c.	Lb.	MINL 8	YZ	—	—	—	B
Non-ferrous metal scrap:							
28401 Copper metalliferous ash and residues.....	Lb.	NONF 6	TVWXYZ	500	500	—	B
28401 Nickel metalliferous residues containing 32 percent or more nickel.	Lb.	NONF 6	TVWXYZ	500	100	—	B
28401 Cobalt oxides	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
28401 Nickel metalliferous residues containing less than 32 percent nickel.	Lb.	NONF 8	WXYZ	—	—	25	B
28401 Vanadium metalliferous ash and residues...	Lb.	MINL 8	XYZ	—	—	25	B
28401 Aluminum metalliferous residues.....	Lb.	NONF 8	YZ	—	—	—	B
28401 Other metalliferous ash and residues, <i>exclud- ing lead, tin, and zinc.</i>	Lb.	MINL 8	YZ	—	—	—	B
28401 Lead, tin and zinc ash and residues.....	Lb.	MINL 8	Z	—	—	—	B
28402 Copper and copper-base waste and scrap....	Lb.	NONF 6	TVWXYZ	500	500	—	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
28403 Nickel alloy metal scrap containing 32 percent or more nickel, <i>excluding nickel-copper alloy scrap containing not more than 6 percent of other alloying elements.</i> (Specify by name with complete metal analysis.) (See § 399.2, Interpretations 10 and 12.)	Lb.	NONF 6	TVWXYZ	500	100	—	
28403 Alloy steel scrap containing 5 percent or more nickel. (See § 399.2, Interpretations 10 and 12.)	Lb.	STEE 2	TVWXYZ	500	100	—	
28403 Other nickel waste and scrap.....	Lb.	NONF 8	WXYZ	—	—	25	B
28404 Aluminum alloy scrap (new and old), special types only ¹	Lb.	NONF 8	WXYZ	—	—	25	B
28404 Other aluminum waste and scrap.....	Lb.	NONF 8	YZ	—	—	—	B
28405 Magnesium alloys in crude forms and scrap containing 0.4 percent or more zirconium, or 1 percent or more of rare earth metals (cerium misch metal). (See § 399.2, Interpretations 10 and 12.)	Lb.	MINL 1	TVWXYZ	500	100	—	A
28405 Other magnesium waste and scrap.....	Lb.	MINL 8	YZ	—	—	—	B
28406 Lead waste and scrap.....	Lb.	NONF 8	Z	—	—	—	B
28409 Tin waste and scrap.....	Lb.	NONF 8	Z	—	—	—	B
28410 Zinc waste and scrap, including blue powder.	Cont. Lb.	NONF 8	Z	—	—	—	B
28500 Platinum and platinum group ores, concentrates, and waste and sweepings.	Cont. Tr. Oz.	MINL 8	YZ	—	—	—	B
CRUDE ANIMAL AND VEGETABLE MATERIALS N.E.C.							
29100 Crude animal materials, as follows: biological supplies. (animal origin); glands, crude; and pancreas.	.....	AGRI 8	YZ	—	—	—	B
29100 Other crude animal materials n.e.c.....	Lb.	AGRI 8	Z	—	—	—	B
29220 Natural gums, resins, balsam, and lac	Lb.	AGRI 8	Z	—	—	—	B
29250 Inbred sweet corn seed. [Report corn seed other than sweet corn seed in Export Control Commodity No. 04400.]	Lb.	AGRI 8	YZ ²	—	—	—	B
29250 Seeds, the following only: alfalfa seed; fescue grass seed; timothy grass seed; red top seed; forage sorghum seed; sugar beet seed; and clover seed, <i>excluding alsike clover seed, bur clover seed, sour clover seed, strawberry clover seed, and suckling clover seed</i>	Lb.	AGRI 8	YZ	—	—	—	B
29250 Other seeds, fruit and spores for planting, <i>excluding oilseeds, n.e.c.</i> ³	Lb.	AGRI 8	Z	—	—	—	B
29260 Bulbs, plants (trees, shrubs, etc.), and other nursery stock. ³	.....	AGRI 8	Z	—	—	—	B

¹ For export control purposes, "special types" of aluminum alloys are defined as those which have (1) an average copper content of 1 percent or more irrespective of other elements; (2) an average copper content of less than 1 percent and (a) a zinc content of 4 percent or more, (b) a silicon content of 3.5 percent or more, or (c) a magnesium content of 9.5 percent or more.

² Inbred corn seed also requires validated licenses for shipment to Rumania.

³ Tobacco seed, Export Control Commodity No. 29250, and tobacco plants, Export Control Commodity No. 29260, require export authorization from the Department of Agriculture. See § 370.5(g).

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29271-33220

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
29271 Cut flowers and buds for ornamental purposes (including Christmas trees).	.....	AGRI 8	Z	—	—	—	B
29272 Foliage, branches, and other parts of trees, shrubs, and bushes, and other plants.	.....	AGRI 8	Z	—	—	—	B
29280 Floculating agent gums (for example, Guartec®, Arguard, Jaquar® gum, and Manogal®).	Lb.	AGRI 8	WXYZ	—	—	25	B
29280 Ceylon moss (for example, agar-agar).....	Lb.	DRUG 8	XYZ	—	—	25	B
29280 Crude vegetable materials, the following only: pyrethrum extract; and extract of the roots of plants containing rotenone (for example, derris extract, cube extract, barbasco extract, and timbo extract).	Lb.	AGSU 8	YZ	—	—	—	B
29280 Cinchona bark; pyrethrum (insect flowers); and rotenone-bearing roots, crude, ground, or powdered (for example, barbasco root, cube root, derris root, and tuba root).	Lb.	DRUG 8	YZ	—	—	—	B
29280 Other crude vegetable materials, n.e.c.....	.....¹	AGRI 8	Z	—	—	—	B
29291 Pectin and pectin substances.....	Lb.	AGRI 8	Z	—	—	—	B
29295 Broomcorn and other vegetable materials used primarily plaitings, stuffings, or padding, or in brushes or brooms.	Lb.	AGRI 8	Z	—	—	—	B
SECTION 3—MINERAL FUELS, LUBRICANTS, AND RELATED MATERIALS							
COAL, COKE, AND BRIQUETS							
32140 Coal, anthracite and bituminous.....	S. Ton	COAL 8	Z	—	—	—	B
32170 Peat and peat briquets.....	S. Ton	COAL 8	Z	—	—	—	B
32180 Gilsocarbon coke or other coke derived from gilsonite.	S. Ton	COAL 8	YZ	—	—	—	B
32180 Other coke of coal, lignite or peat.....	S. Ton	COAL 8	Z	—	—	—	B
32190 Lignite; and coal and lignite briquets.....	S. Ton	COAL 8	Z	—	—	—	B
PETROLEUM AND PETROLEUM PRODUCTS							
331 Petroleum, crude and partly refined for further refining <i>excluding natural gasoline</i> (bbl. of 42 gal.).	Bbl.	PETR 8	WXYZ	—	—	25	B
33210 Gasoline, <i>excluding jet fuel</i> (bbl of 42 gal.). [Report jet fuel in Export Control Commodity No. 33220.]	Bbl.	PETR 8	WXYZ	—	—	25	B
33210 Gasoline blending agents, hydrocarbon compounds only, n.e.c. (Bbl. of 42 gal.)	Bbl.	PETR 8	WXYZ	—	—	25	B
33220 Liquid jet fuels having a gross calorific value of not less than 23,400 BTU per pound (bbl. of 42 gal.).	Bbl.	PETR 1	TVWXYZ	500	25	—	A E-4
33220 Other jet fuels (bbl. of 42 gal.).....	Bbl.	PETR 2	TVWXYZ	500	25	—	E-4
33220 Kerosene <i>excluding kerosene-base jet fuel</i> (bbl of 42 gal.).	Bbl.	PETR 8	WXYZ	—	—	25	B

¹ Report ginseng, and licorice mass and extract in "pound."

January 1, 1965

Comprehensive Export Schedule

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
33230 Distillate fuel oils (bbl. of 42 gal.)	Bbl.	PETR 8	WXYZ	—	—	25	B
33240 Residual fuel oils (bbl. of 42 gal.)	Bbl.	PETR 8	WXYZ	—	—	25	B
Lubricating oils and greases:							
33250 Lubricating oils, petroleum based, which have a pour point of minus 30° F. (minus 34° C.) or lower, and which are thermally stable at plus 700° F. (plus 371° C.) (bbl. of 42 gal.). ¹	Bbl.	PETR 1	TVWXYZ	500	25	—	A E-4
33250 Lubricating oils, synthetic, which contain as the principal ingredient: (a) esters of saturated aliphatic monohydric alcohols containing more than six carbon atoms with adipic or azelaic or sebacic acids, (b) esters of trimethylol propane or trimethylol ethane or pentaerythritol with saturated monobasic acids containing more than 6 carbon atoms, (c) fluorinated alcohol esters, or (d) polyphenyl ethers containing more than three phenyl groups (bbl. of 42 gal.).	Bbl.	PETR 1	TVWXYZ	500	25	—	A E-4
33250 Other industrial engine lubricating oils, synthetic, which contain as the principal ingredient (a) esters of dibasic saturated aliphatic acids combined with saturated aliphatic monohydric alcohols, where both of the two constituents contain six or more carbon atoms, or (b) esters of dibasic saturated aliphatic acids combined with polyglycols, where one or both of the two constituents contain six or more carbon atoms bbl of 42 gal.	Bbl.	PETR 2	TVWXYZ	500	25	—	E-4
33250 Cylinder bright stock (including bright stock and industrial lubricating oils which are predominantly bright stock and have a Saybolt Universal viscosity at 210° F. of 95 seconds or more) (bbl. of 42 gal.).	Bbl.	PETR 2	TVWXYZ	1000	1000	—	
33250 Lubricants composed wholly of fluorocarbon polymers and copolymers. (See § 399.2, Interpretation 22.)	Lb.	RESN 3	TVWXYZ	500	25	—	AE-13
33250 Molybdenum lubricants containing 80 percent or more of molybdenum disulphide.	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
33250 Silicone fluids containing halogenated organic radicals.	.....	ORGN 1	TVWXYZ	500	100	—	AE-14
33250 Other petroleum based aviation engine lubricating oil. (bbl. of 42 gal.)	Bbl.	PETR 2	VWXYZ	—	100	—	E-4
33250 Other ester type synthetic aviation engine lubricating oil (bbl. of 42 gal.)	Bbl.	PETR 8	WXYZ	—	—	25	B
33250 Other synthetic aviation engine lubricating oil; and lubricating oils in containers of 8 ounces or less (bbl of 42 gal.)	Bbl. ²	PETR 8	XYZ	—	—	25	B
33250 Other lubricating oils (bbl of 42 gal.)	Bbl. ²	PETR 8	WXYZ	—	—	25	B
33250 Silicone lubricating grease cable of operating at temperatures of 180° C. or higher and with an ASTM drop point of 220° C. or higher.	Lb.	ORGN 1	TVWXYZ	500	100	—	AE-14

¹ Thermal stability is determined as follows: twenty c.c. of the fluid under test shall be placed in a 46 c.c. stainless steel chamber containing one each of .5 inch diameter balls of M-10 tool steel, 52100 steel, and naval bronze. The chamber shall be purged with nitrogen, sealed at atmospheric pressure, and the temperature raised to 371 plus or minus 6° C. and maintained at this temperature for six hours. The specimen will be considered thermally stable if at the completion of the above procedure all of the following conditions are met: (a) the weight loss of each ball is less than 0.1 milligram per square centimeter of surface, (b) the change in original viscosity as determined at 38° C. is less than 25 percent, and (c) the total acid or base number is less than 40.

² If less than one barrel, quantity may be reported in gallons or ounces.

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33250-33295

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups ¹ Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
33250 Lubricating greases, petroleum based, made from petroleum oils which have a pour point of minus 30° F. (Minus 34° C.) or lower, and which are thermally stable at plus 700° F. (plus 371° C.). ¹	Lb.	PETR 1	TVWXYZ	500	25	—	A E-4
33250 Red and pale oils, black oils, steam cylinder oil (bbl. of 42 gal.)	Bbl.	PETR 8	WXYZ	—	—	25	B
33250 Synthetic lubricating greases which contain as the principal ingredient: (a) esters of saturated aliphatic monohydric alcohols containing more than six carbon atoms with adipic or azelaic or sebacic acids, (b) esters of trimethylol propane or trimethylol ethane or pentaerythritol with saturated monobasic acids containing more than six carbon atoms, (c) fluorinated alcohol esters, or (d) polyphenyl ethers containing more than three phenyl groups.	Lb.	PETR 1	TVWXYZ	500	25	—	A E-4
33250 Other synthetic lubricating greases which contain as the principal ingredient: (a) esters of dibasic saturated aliphatic acids combined with saturated aliphatic monohydric alcohols, where both of the two constituents contain six or more carbon atoms, or (b) esters of dibasic saturated aliphatic acids combined with polyglycols, where one or both of the two constituents contain six or more carbon atoms.	Lb.	PETR 2	TVWXYZ	500	25	—	E-4
33250 Other lubricating greases.....	Lb.	PETR 8	WXYZ	—	—	25	B
33261 Petroleum jelly (petrolatum).....	Lb.	PETR 8	XYZ	—	—	25	B
33262 Mineral waxes	Lb.	PETR 8	XYZ	—	—	25	B
33291 Hydraulic or automatic transmission fluids, petroleum based, having all of the following characteristics: (a) kinematic viscosity of 4.6 centistokes or greater at 210° F.; (b) pour point of minus 30° F or lower; and (c) viscosity index (VI) of 130 or higher (Bbl. of 42 gal.)	Bbl.	PETR 2	TVWXYZ	500	25	—	E-4
33291 Hydraulic fluids, petroleum based, which have a pour point of minus 30° F. (minus 34° C.) or lower, and which are thermally stable at plus 700° F. (plus 371° C.) (bbl. of 42 gal.). ¹	Bbl.	PETR 1	TVWXYZ	500	25	—	A E-4
33291 Insulating or transformer oils, excluding polybutene; petroleum base cutting oils; and white mineral oil, excluding medicinal grade (bbl. of 42 gal.).	Bbl.	PETR 8	WXYZ	—	—	25	B
33291 Other nonlubricating and nonfuel petroleum oils (bbl. of 42 gal.).	Bbl.	PETR 8	XYZ	—	—	25	B
33292 Pitch obtained from mineral tars.....	S. Ton	COAL 8	XYZ	—	—	25	B
33293 Pitch coke	S. Ton	PETR 8	XYZ	—	—	25	B
33294 Petroleum coke	S. Ton	PETR 8	XYZ	—	—	25	B
33295 Petroleum bitumen and other petroleum and shale oil residues.	S. Ton	PETR 8	YZ	—	—	—	B

¹Thermal stability is determined as follows: twenty c.c. of the fluid under test shall be placed in a 46 c.c. stainless steel chamber containing one each of 5 inch diameter balls of M-10 tool steel, 52100 steel, and naval bronze. The chamber shall be purged with nitrogen, sealed at atmospheric pressure, and the temperature raised to 371 plus or minus 6° C. and maintained at this temperature for six hours. The specimen will be considered thermally stable if at the completion of the above procedure all of the following conditions are met: (a) the weight loss of each ball is less than 0.1 milligram per square centimeter of surface, (b) the change in original viscosity as determined at 38° C. is less than 25 percent, and (c) the total acid or base number is less than .40.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
33296 Bituminous mixtures, based on asphalt, petroleum, etc.	S. Ton	PETR 8	YZ	—	—	—	B
GAS, NATURAL AND MANUFACTURED							
34110 Natural gas liquids, including liquefied petroleum gas (L.P.G.) (bbl. of 42 gal.). ¹	Bbl.	PETR 8	XYZ	—	—	25	B
34120 Gas, manufactured (artificial). ¹	M. Cu. ft.	SALT 8	XYZ	—	—	25	B
SECTION 4—ANIMAL AND VEGETABLE OILS AND FATS							
ANIMAL OILS AND FATS							
411 Animal oils and fats.....	Lb.	AGRI 8	Z	—	—	—	B
VEGETABLE OILS AND FATS							
42120 Soybean oil, crude, <i>excluding hydrogenated</i> ..	Lb.	AGRI 8	YZ	—	—	—	B
42130 Cottonseed salad oil, <i>excluding hydrogenated</i>	Lb.	AGRI 8	YZ	—	—	—	B
42140 Peanut oil, n.e.c.....	Lb.	AGRI 8	YZ	—	—	—	B
42180 Soft vegetable oils, <i>excluding hydrogenated</i> , as follows: peanut; sunflower seed; rape; colza; and mustard.	Lb.	AGRI 8	YZ	—	—	—	B
42180 Olive oil	Lb.	AGRI 8	Z	—	—	—	B
42210 Linseed oil, raw.....	Lb.	AGRI 8	YZ	—	—	—	B
42280 Other vegetable oils, not hydrogenated, <i>except apricot kernel; kapok seed; laurel; mahwah seed; niger seed; palm kernel; peach seed; sweet almond; tea seed; walnut; and wild mustard seed.</i>	Lb.	AGRI 8	YZ	—	—	—	B
42280 Vegetable oils, not hydrogenated, as follows: apricot kernel; kapok seed; laurel; mahwah seed; niger seed; palm kernel; peach seed; sweet almond; tea seed; walnut; and wild mustard seed.	Lb.	AGRI 8	Z	—	—	—	B
FATTY ACIDS, WAXES, AND SPECIALLY TREATED FATS AND OILS (EXCLUDING PETROLEUM PRODUCTS)							
43110 Vegetable oils, boiled, oxidized, dehydrated, sulphurized, blown or polymerized.	Lb.	AGRI 8	YZ	—	—	—	B
43120 Hydrogenated fats and oils, <i>excluding shortening</i> . [Report shortening in Export Control Commodity No. 09140.]	Lb.	AGRI 8	YZ	—	—	—	B
43130 Tall oil fatty acids.....	Lb.	AGRI 8	YZ	—	—	—	B
43130 Other fatty acids.....	Lb.	AGRI 8	Z	—	—	—	B
43130 Fats, acidulated, soapstock, and other refining by-products.	Lb.	AGRI 8	YZ	—	—	—	B
499 Animal and vegetable oils and fats, n.e.c., donated for relief or charity by individuals or private agencies.							

Export controls applicable to each commodity under this classification are those which apply to the commodity when exported commercially under its individual Export Control Commodity number.

¹ Natural gas, or any mixture of natural and manufactured gas, requires export authorization from the Federal Power Commission. See paragraph 370.5(f).

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51201-51209

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
SECTION 5—CHEMICALS							
CHEMICAL ELEMENTS AND COMPOUNDS							
51201 Coal tar chemicals, n.e.c. (includes pure or commercially pure), <i>except creosote or dead oil.</i>	Lb.	ORGN 8	XYZ	—	—	—	B
51201 Creosote or dead oil.....	Lb.	ORGN 8	YZ	—	—	25	B
Cyclic (coal tar) intermediates:							
51202 Cyclohexone	Lb.	ORGN 2	TVWXYZ	500	25	—	
51202 Diazodinitrophenol	Lb.	ORGN 3	TVWXYZ	500	25	—	A E-14
51202 2-Di-cyclohexyl carbodiimide	Lb.	ORGN 2	TVWXYZ	500	—	—	
51202 Di-o-tolyl carbodiimide	Lb.	ORGN 2	TVWXYZ	500	—	—	
51202 Diphenylamine	Lb.	ORGN 2	TVWXYZ	500	100	—	E-14
51202 Fluoroalcohol esters of organic carboxylic acids boiling above 500° F. (260° C.).	Lb.	ORGN 1	TVWXYZ	500	100	—	A E-14
51202 Methyl benzylate	Lb.	ORGN 2	TVWXYZ	500	25	—	
51202 Ortho chloro benzaldehyde.....	Lb.	ORGN 2	TVWXYZ	500	25	—	
51202 Piperidine carboxyl acid.....	Lb.	ORGN 2	TVWXYZ	500	25	—	
51202 p-nitro-N-methylaniline	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51202 Polyphenyl ethers containing more than three phenyl groups	Lb.	ORGN 1	TVWXYZ	500	100	—	A
51202 3-Quinuclidinone; and 3-quinuclidinol.....	Lb.	ORGN 2	TVWXYZ	500	25	—	
51202 2:4 Dinitrophenol	Lb.	ORGN 8	WXYZ	—	—	25	B
51202 Dinitrotoluene solids and oils.....	Lb.	ORGN 8	WXYZ	—	—	25	B
51202 Styrene monomers	Lb.	ORGN 8	WXYZ	—	—	25	B
51202 Ethylbenzene	Lb.	ORGN 8	WXYZ	—	—	25	B
51202 N-methylaniline (monomethylaniline)	Lb.	ORGN 8	WXYZ	—	—	25	B
51202 Other cyclic (coal tar) intermediates.....	Lb.	ORGN 8	XYZ	—	—	25	B
51203 Sulfathiazole and derivatives, and sulfadiazine and derivatives, in bulk.	Lb.	DRUG 8	XYZ	—	—	25	B
51203 Other synthetic organic medicinal chemicals, drugs, in bulk form	Lb.	DRUG 8	YZ	—	—	—	B
51203 Flavor and perfume materials, synthetic, except chemically modified essential oils.	Lb.	DRUG 8	XYZ	—	—	25	B
Rubber processing chemicals:							
51204 Antiozonants	Lb.	ORGN 8	WXYZ	—	—	25	B
51204 Other rubber processing chemicals, acrylic and cyclic.	Lb.	ORGN 8	XYZ	—	—	25	B
51205 Dioctylphtalates	Lb.	ORGN 8	XYZ	—	—	25	B
51205 Plasticizers, acyclic and cyclic.....	Lb.	ORGN 8	XYZ	—	—	25	B
Pesticides and other synthetic organic agricultural chemicals (technical, not formulations):							
51206 Other herbicides; fungicides; DDT (dichlorodiphenyl trichloroethane); organic phosphate insecticides; polychlor insecticides; methyl bromide; nematocides; and soil fumigants.	Lb.	AGSU 8	XYZ	—	—	25	B
51206 Other pesticides and synthetic organic chemicals (technical, not formulations).	Lb.	SALT 8	YZ	—	—	—	B
51206 Disinfectants, deodorants, germicides, rodenticides, soil conditioners, and other agricultural chemicals, n.e.c.	Lb.	SALT 8	YZ	—	—	—	B
51209 Acetylene	M. Cu. ft.	SALT 8	XYZ	—	—	25	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51209 Glycerine crude and refined. (Report weight of glycerol content).	Lb.	ORGN 8	XYZ	—	—	25	B
51209 Other industrial organic chemicals, n.e.c....	Lb.	SALT 8	XYZ	—	—	25	B
51209 Diazodinitrophenol	Lb.	ORGN 3	TVWXYZ	500	25	—	A E-14
51209 Ethyl centralite	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Diortho tolyl urethane.....	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Diphenyl urethane	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Ethyl-NN-diphenylurea (ethyl unsymmetrical diphenylurea)	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Ethyl phenyl urethane.....	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Guanidine nitrate	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51209 Methyl centralite	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Methyl-NN-diphenylurea (methyl unsymmetrical diphenylurea).	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Monomethyl hydrazine	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51209 2-Nitrodiphenylamine	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 3 Nitraza-1,5 pentane diisocyanates [di (2-isocyano ethyl) nitramine]	Lb.	SALT 1	TVWXYZ	500	—	—	A
51209 NN-diphenylurea (ansymmetrical diphenylurea)	Lb.	ORGN 3	TVWXYZ	500	—	—	A E-14
51209 Polyphenyl ethers containing more than three phenyl groups.	Lb.	ORGN 1	TVWXYZ	500	—	—	A E-14
51209 Symmetrical dimethylhydrazine	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51209 Other cyclic chemical products, excluding medicinals, n.e.c.	Lb.	ORGN 8	XYZ	—	—	25	B
Organo-fluorine compounds, n.e.c.:							
51209 Chloropentafluorobutadiene	Lb.	SALT 1	TVWXYZ	500	25	—	A E-14
51209 Copolymers of bromotrifluoroethylene and chlorotrifluoroethylene	Lb.	SALT 1	TVWXYZ	500	25	—	A E-14
51209 Dibromotetrafluoroethane	Lb.	SALT 1	TVWXYZ	500	25	—	A E-14
51209 Difluoroethane; monochlorodifluoroethane; and monochlorodifluoromethane. (Specify by name)	Lb.	SALT 1	TVWXYZ	500	100	—	A E-14
51209 Fluoroalcohol esters	Lb.	ORGN 1	TVWXYZ	500	100	—	A E-14
51209 Hexafluoropropylene	Lb.	SALT 1	TVWXYZ	500	100	—	A E-14
51209 Polybromotrifluoroethylene	Lb.	SALT 1	TVWXYZ	500	25	—	A E-14
51209 Tetrafluoroethylene	Lb.	SALT 1	TVWXYZ	500	25	—	A E-14
51209 Tetrafluoromethane	Lb.	SALT 2	TVWXYZ	500	100	—	E-14
51209 Trichlorotrifluoroethane; and dichlorotetrafluoroethane. (Specify by name.)	Lb.	SALT 1	TVWXYZ	500	100	—	A E-14
51209 Trifluoromonochloroethylene	Lb.	SALT 1	TVWXYZ	500	25	—	A E-14
51209 Vinylidene fluoride	Lb.	SALT 1	TVWXYZ	500	100	—	A E-14
51209 Bromonochlorodifluoromethane; dibromodifluoromethane; dibromomonochlorotrifluoroethane; monobromotrifluoromethane; monochloropentafluoroethane; monochlorotrifluoromethane; octafluorocyclobutane; and tetrachlorodifluoroethane.	Lb.	ORGN 8	WXYZ	—	—	25	B
51209 Other organo-fluorine compounds, n.e.c.....	Lb.	SALT 8	XYZ	—	—	25	B

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51209 Bis 2 (2, 2' dinitropropyl) formal and acetal	Lb.	ORGN 1	TVWXYZ	500	—	—	A
51209 2-Cyanoacetamide	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Diethylaminoethanol	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Diethylene triamine	Lb.	ORGN 1	TVWXYZ	500	100	—	A E-14
51209 Di-ethyl methyl phosphonite	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Di-isopropyl amino ethyl chloride hydrochloride.	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Di-isopropyl carbodiimide	Lb.	ORGN 2	TVWXYZ	500	—	—	
51209 2-Di-isopropyl aminoethanol	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Di-methyl hydrogen phosphite.....	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 2, 2' Dinitropropanol.....	Lb.	ORGN 1	TVWXYZ	500	—	—	A
51209 Esters of trimethylol propane or trimethylol ethane or pentaerythritol with saturated monobasic acids containing more than six carbon atoms (including but not limited to trimethylolpropane tripelargonate).	Lb.	ORGN 1	TVWXYZ	500	100	—	A E-14
51209 Esters of saturated aliphatic monohydric alcohols containing more than six carbon atoms with adipic or azelaic or sebacic acids (including but not limited to monyl sebacates, nonyl azelates, nonyl adipates, octyl sebacates, octyl azelates, and octyl adipates).	Lb.	ORGN 1	TVWXYZ	500	100	—	A E-14
51209 Other esters of saturated monohydric alcohols with dibasic saturated aliphatic acids where both of the two constituents contain six or more carbon atoms.	Lb.	ORGN 2	TVWXYZ	500	100	—	E-14
51209 Esters of dibasic saturated aliphatic acids combined with polyglycols, where one or both of the two constituents contain six or more carbon atoms.	Lb.	ORGN 2	TVWXYZ	500	100	—	E-14
51209 Lysergic acid di ethyl amide.....	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Malononitrile	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Methyl dichlor phosphine.....	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Methyl isonicotenate	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 Methyl phosphonyl dichloride.....	Lb.	ORGN 2	TVWXYZ	500	25	—	
51209 N, N-diethyl ethylene diamine (diethylamino ethylamine).	Lb.	ORGN 2	TVWXYZ	500	100	—	
51209 Triethylene glycol di 2-ethylbutyrate.....	Lb.	ORGN 2	TVWXYZ	500	100	—	E-14
51209 Organic chemicals, the following only: isopropyl ether; pentaerythritol; and thiodiglycol.	Lb.	ORGN 8	WXYZ	—	—	25	B
51209 Organic chemicals, the following only: A, B-dibromopropionic acid; adenylic acid; camphoric acid; camphosulfuric acid; hydrochloric or muriatic acid; ethyl alcohol; diacetone alcohol; corn protein denaturant; crotonaldehyde; cyanacetamide, diethyl malonate; dimethyl glyoxime; dipentaerythritol acetate; dipentaerythritol hexapropionate; dipentaerythritol hexybutyrate; ethyl butyrate; ethyl chloride; ethyl chloroacetate; ethyl	Lb.	ORGN 8	YZ	—	—	—	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51209 Other miscellaneous acyclic chemicals and products, n.e.c.	Lb.	ORGN 8	XYZ	—	—	25	B
51209 Miscellaneous organic chemicals, excluding cyclic, n.e.c., the following only: Acetate cement; automobile top sealer; cementing compound, sulfur and tar; cementing preparations, for pyroxylin watch glasses; film cement with paraffin; floor cement; floor patch, concrete; iron cement; linoleum cement, except rubber; linoleum paste, except rubber; polishing wheel cement; roofing cement; running board cement; soil pipe cementing preparations; solder glue; thread lubricant and seal compound; tire-cut filler; wallboard cementing preparations; aluminum stearate solution for waterproofing masonry; brewers' finings; brewers' tank coating compound; calcium chloride and salt compound; ceramic printing paste; chemical compounds for manufacturing ice cream; chill proofing compounds; cigar lighter fluid; clarifier, for beer or ale; clarifying powder for wines; concrete hardeners; concrete plasticizer compounds; concrete waterproofing compound; denatured alcohol, solidified; Diol oleate® (rubber thread lubricating compound); dough improvers; etching compounds; fluorescent powder, daylight (magnesium sulfate and ammonium tungstate); glycerol stearate (emulsifying agent); hat finishing powder; indicating paste; industrial enzymes; ink conditioners; ink eradicators; ink thinners, for cellophane printing; laundry sour; leather binding compounds; lipstick bases; marble polish; meat curing compounds; metallic hardeners for cement floors; model airplane engine fuels; paper-coating paste; pickling inhibitors; plant hormones; platinum liquids for decorating china and glass; platinum plating solutions; road binding compound; rosin size; saturating compounds, asphalt base; screening pastes; secondary and minor plant nutrients, n.e.c.; shark deterrents; shaving cream base, concentrated; shellac substitutes; silk-stocking savers, in tablet form; silver liquids for decorating china and glass; soil conditioners, synthetic; talc paste; white camphor oils; calcium propionate (bread-making compound); iron oxide suspension (spirit dispersion); metal patch alloy; metal patch solvents; and sodium propionate (bread-making compounds).	.....	SALT 8	Z	—	—	—	B
51310 Aluminum acetate; aluminum dihydroxy-aminoacetate; aluminum formate solutions; aluminum lactate; aluminum octoate; aluminum oxiquinolinate; ammonium acetate, ammonium alginate, ammonium bitartrate; ammonium ferric oxalate; ammonium oxalate; ammonium thioglycollate; an-	Lb.	SALT 8	YZ	—	—	—	B

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51310-51338

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
timony lactate; cadmium acetate, cadmium octoate; cadmium salicylate; calcium acetate; calcium formate; calcium linoleate, except paint and varnish dryers; calcium tartrate; chlorophyll, dry; chlorophyll solution (in oil); iron protoxalate; iron sodium oxalate; magnesium oxyphenyl arsenate; manganese acetate; phenyl mercury acetate; potassium acetate; potassium bitartrate; potassium oxalate; potassium oxichinolin sulfonate; potassium salicylate; sodium bitartrate (acid sodium tartrate); sodium formate; sodium gluconate; sodium methylate; sodium oxalate; sodium potassium tartrate; sodium salicylate; sodium stearate; tartar emetic; zinc acetate; and zinc stearate.							
51310 Other rare gasses, and oxygen (including ozone), nitrogen and hydrogen.	.....	SALT 8	XYZ	—	—	25	B
51327 Carbon, including carbon black, anthracene black, etc.	Lb.	SALT 8	XYZ	—	—	25	B
Chemical elements, n.e.c.:							
51329 Boron metal, including alloys and mixtures containing 5 percent or more boron; all forms thereof, including powders, grains, continuous filaments and fibers.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
51329 Boron alloys and mixtures containing less than 5 percent boron.	Lb.	MINL 8	WXYZ	—	—	25	B
51329 Calcium metal containing less than one hundredth (0.01) percent by weight of impurities other than magnesium and less than 10 parts per million of boron.	Lb.	MINL 1	TVWXYZ	500	—	—	A E-7
51329 Lithium metals	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
51329 Quicksilver or mercury	Lb.	MINL 2	TVWXYZ	500	100	—	E-7
51329 Polycrystalline silicon of a purity of 99.99 percent or more.	Lb.	MINL 1	TVWXYZ	500	—	—	A E-7
51329 Polycrystalline silicon of a purity of 99.9 percent up to but not including 99.99 percent.	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
51329 Monocrystalline silicon	Lb.	MINL 1	TVWXYZ	500	—	—	A E-7
51329 Yttrium metal and powders	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
51329 Phosphorus, elemental	Lb.	SALT 8	WXYZ	—	—	25	B
51329 Sulfur, sublimed, precipitated or colloidal sulfur; bromine; iodine; and other chemical elements, n.e.c.	Lb.	SALT 8	XYZ	—	—	25	B
51333 Sulfuric acid; oleum	Cont. lb.	SALT 8	XYZ	—	—	25	B
51338 Boron minerals refined (including but not limited to colemanite, pandermite, kernite, and ulexite). (Specify by name.) [Report crude boron minerals in Export Control Commodity No. 27697.]	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51338 Fluoroboric acid (all concentrations)	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51338 Boron trichloride and its complexes; and boron trifluoride and its complexes.	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51338 Boric acids in which the boron-10 isotope comprises more than 20 percent of the total boron content.	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51338 Other boric acids.....	Lb.	SALT 8	WXYZ	—	—	25	B
51338 Boron compounds and mixtures containing 5 percent or more boron, <i>except boron minerals; boric acid; boric acid salts (inorganic borates and perborates); and fluoborates.</i>	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51338 Other boron compounds and mixtures, <i>except perborates.</i> (Specify by name.)	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
51338 Perborates.....	Lb.	SALT 8	Z	—	—	—	B
51338 Other inorganic acids and oxygen compounds of non-metals or metalloids, <i>except hydrochloric or muriatic acid.</i>	Lb.	SALT 8	XYZ	—	—	25	B
51338 Hydrochloric or muriatic acid.....	Lb.	SALT 8	YZ	—	—	—	B
51340 Bromine trifluoride, and bromine pentafluoride.	.....	SALT 8	WXYZ	—	—	25	B
51340 Chlorine trifluoride.....	.....	SALT 1	TVWXYZ	500	100	—	A E-13
51340 Phosphorus oxychloride; and phosphorus trichloride.	Lb.	SALT 8	WXYZ	—	—	25	B
51340 Other halogen and sulfur compounds of non-metals or of metalloids. ¹	Lb.	SALT 8	XYZ	—	—	25	B
51350 Cobalt oxide; and cobalt hydroxide.....	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
51350 Iron hydroxide; and zinc peroxide.....	Lb.	SALT 8	YZ	—	—	—	B
51350 Oxides of zinc, titanium, lead, manganese; and iron, <i>except iron oxide pigments.</i>	Lb.	SALT 8	XYZ	—	—	25	B
51350 Iron oxide pigments.....	Lb.	SALT 8	Z	—	—	—	B
51361 Ammonia, anhydrous or in aqueous solution (including fertilizer material).	Cont. lb.	SALT 8	XYZ	—	—	25	B
51362 Sodium hydroxide (caustic soda) solid and liquid. ²	Lb.	SALT 8	XYZ	—	—	25	B
51363 Caustic potash; and peroxides of potassium or sodium.	Lb.	SALT 8	XYZ	—	—	25	B
51364 Magnesium oxide, precipitated, purity 97 percent or higher.	Lb.	SALT 2	TVWXYZ	500	50	—	E-13
51364 Other oxides, hydroxides and peroxides of strontium, barium or magnesium.	Lb.	SALT 8	XYZ	—	—	25	B
51365 Other aluminum oxide and hydroxide.....	Lb.	MINL 8	XYZ	—	—	25	B
51366 Artificial corundum.....	Lb.	FINP 8	Z	—	—	—	B
51367 Chromium oxides, anhydrides, and hydroxides	Lb.	SALT 8	XYZ	—	—	25	B
51368 Tin oxides.....	Lb.	SALT 8	XYZ	—	—	25	B
Other inorganic bases and metallic oxides, hydroxides, and peroxides:							
51369 Beryllium compounds and hydroxides.....	Lb.	SALT 1	TVWXYZ	500	500	—	A E-13
51369 Gallium compounds and hydroxides.....	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51369 Monocrystalline gallium compounds. (Specify by chemical name.)	Lb.	SALT 1	TVWYXZ	500	—	—	A E-13

¹ See paragraph 370.5(a) for commodities which require export authorization from the U. S. Department of State.

² Report liquid form in "content pound."

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51369-51460

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51369 Other gallium salts and compounds. (Specify by chemical name.)	Lb.	SALT 2	TVWXYZ	500	—	—	E-13
51369 Germanium compounds, 99.99 percent or better purity.	Lb.	SALT 2	TVWXYZ	500	—	—	E-13
51369 Hafnium oxides containing more than 15 percent hafnium by weight. (State hafnium content.)	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51369 Hafnium oxides containing less than 15 percent hafnium by weight. (State hafnium content.)	Lb.	SALT 2	TVWXYZ	500	—	—	E-13
51369 Lithium oxides and hydroxides.....	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51369 Roasted molybdenum or molybdenite concentrates (technical molybdic oxide) (weight in molybdenum content).	Cont. lb.	MINL 4	TVWXYZ	500	500	—	E-7
51369 Other molybdenum oxides, hydroxides and peroxides.	Lb.	MINL 4	TVWXYZ	500	500	—	E-7
51369 Rhenium oxides and compounds.....	Lb.	SALT 2	TVWXYZ	500	—	—	
51369 Tantalum, niobium (columbium), and tantalum-niobium (columbium) oxides.	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51369 Zirconium oxide containing less than one part hafnium to 500 parts zirconium. (Specify by name.) (State hafnium content.)	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51369 Other zirconium oxide, purity 97 percent or higher, or stabilized with lime and/or magnesia. (State hafnium content.)	Lb.	SALT 2	TVWXYZ	500	25	—	E-13
51369 Nickel oxide.....	Lb.	SALT 8	WXYZ	—	—	25	B
51369 Other catalysts useable in petroleum and chemical processing operations.	Lb.	SALT 8	WXYZ	—	—	25	B
51369 Other inorganic bases and metallic oxides, hydroxides and peroxides, <i>excluding calcium hydroxide.</i>	Lb.	SALT 8	XYZ	—	—	25	B
51369 Calcium hydroxide.....	Lb.	AGSU 8	Z	—	—	—	B
51440 Inorganic pigments, n.e.c., <i>excluding calcium sulfate.</i>	Lb.	SALT 8	XYZ	—	—	25	B
51440 Calcium sulfate.....	Lb.	SALT 8	Z	—	—	—	B
Aluminum compounds, n.e.c.:							
51450 Aluminum compounds, <i>the following only:</i> alum, crystallized; aluminum fluoride; aluminum isopropylate; aluminum nitrate; aluminum silicate; ammonia alum; potash alum; potassium alum, potassium aluminum sulfate; soda alum; sodium aluminate; and sodium aluminum sulfate.	Lb.	SALT 8	YZ	—	—	—	B
51450 Other aluminum compounds, n.e.c.....	Lb.	SALT 8	XYZ	—	—	25	B
Sodium and potassium compounds, n.e.c. (excluding bleaches and alkalis):							
51460 Fluoroborates, borohydrides, and other boron compounds and mixtures (including borate and perborates) containing 5 percent or more boron.	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51460 Borates refined.....	Lb.	SALT 6	TVWXYZ	500	100	—	E-13
51460 Perborates.....	Lb.	SALT 8	Z	—	—	—	B
51460 Sodium azide.....	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51460 Sodium perchlorate; and potassium perchlorate.	Lb.	SALT 8	WXYZ	—	—	25	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51460 Sodium compounds and potassium compounds, <i>the following only</i> : Potash-magnesia carbonate; potassium arsenite; potassium bicarbonate; potassium bisulfate; potassium meta-bisulfite; potassium phosphate, monobasic; potassium silicate; potassium sulfate; potassium sulfide; rochelle salts; sodium allyl arsenate; sodium ammonium phosphate; sodium arsenate; sodium bisulfite; sodium chlorite; sodium orthosilicate; sodium sesquicarbonate; sodium silicate or water glass; sodium sulfate; and sodium thiosulfate.	Lb.	SALT 8	YZ	—	—	—	B
			Z				
51460 Sodium bicarbonate or baking soda.....	Lb.	SALT 8		—	—	—	B
51460 Other sodium and potassium compounds, n.e.c. ¹	Lb.	SALT 8	XYZ	—	—	25	B
51470 Boron carbide, crude and in grains; and cubic boron nitride.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
51470 Tantalum carbide	Lb.	MINL 1	TVWXYZ	500	100	—	A
51470 Lead thiocyanate.	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51470 Molybdenum disulfide, 86 percent content or lighter.	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
51470 Molybdenum salts and compounds, n.e.c....	Lb.	SALT 8	WXYZ	—	—	25	B
51470 Nickel chloride; and nickel sulfate.....	Lb.	SALT 8	WXYZ	—	—	25	B
51470 Calcium boride containing 5 percent or more boron.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
51470 Lithium bromide	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51470 Lithium iodide	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51470 Boron trichloride and its complexes and boron trifluoride and its complexes.	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51470 Ammonium fluoroborate	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51470 Boron hydride; and boron nitride.....	Lb.	SALT 1	TVWXYZ	500	100	—	A E-13
51470 Other boron compounds and mixtures containing 5 percent or more boron.	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51470 Boron compounds and mixtures containing less than 5 percent boron <i>excluding perborates</i> .	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
51470 Hydrogen peroxide or dioxide, 66 up to and including 85 percent strength. ²	Lb.	SALT 1	TVWXYZ	500	—	—	A E-13
51470 Hydrogen peroxide or dioxide, 50 up to and including 65 percent strength.	Lb.	SALT 2	TVWXYZ	500	—	—	E-13
51470 Hydrogen peroxide or dioxide, 6 up to and including 49 percent strength.	Lb.	SALT 8	XYZ	—	—	25	B
51470 Hydrogen peroxide or dioxide, less than 6 percent strength.	Lb.	SALT 8	Z	—	—	—	B
51470 Beryllium oxides and compounds (including, but not limited to beryllium nitrate, beryllium sulfate, beryllium carbonate, zinc beryllium silicate). (Specify by name.)	Lb.	SALT 1	TVWXYZ	500	500	—	A E-13
51470 Cobalt carbonate; cobalt oxalate; cobalt sulfide; and cobalt phosphide.	Lb.	SALT 2	TVWXYZ	500	100	—	E-13

¹ Potassium nitrate requires export authorization from the Department of State. (See paragraph 370.5(a).)
² Hydrogen peroxide or dioxide in excess of 85 percent concentration, Export Control Commodity No. 51470, requires export authorization from the Department of State. See paragraph 370.5(a).

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51470

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51470 Other cobalt compounds, n.e.c.....	Lb.	SALT 8	WXYZ	—	—	25	B
51470 Germanium compounds, 99.99 percent or better purity.	Lb.	SALT 2	TVWXYZ	500	—	—	E-13
51470 Lithium salts and compounds (including, but not limited to, lithium carbonate, lithium hydride, lithium iodide, lithium potassium ferrocyanide, and lithium zirconium silicate).	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51470 Tantalum compounds; niobium (columbium) compounds; and tantalum-niobium (columbium) compounds. (Specify by name.)	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51470 Zirconium compounds containing less than one part hafnium to 500 parts zirconium. (Specify by name.) (State hafnium content.)	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51470 Lead azide; and mercury (mercuric) fulminate.	Lb.	SALT 1	TVWXYZ	500	25	—	A E-13
51470 Titanium carbide	Lb.	MINL 8	WXYZ	—	—	25	B
51470 Ammonium molybdate; bromine pentafluoride; bromine trifluoride; molybdenum salts and compounds; nickel chloride; and nickel sulfate.	Lb.	SALT 8	WXYZ	—	—	25	B
51470 Other catalysts useable in petroleum and chemical processing operations.	Lb.	SALT 8	WXYZ	—	—	25	B
51470 Ammonium metavanadate; silicon carbide; tungsten carbide; and calcium boride.	Lb.	MINL 8	XYZ	—	—	25	B
51470 Liquid air	M. cu. ft.	SALT 8	XYZ	—	—	25	B
51470 Inorganic agricultural insecticides; nematocides; soil fumigants; crude cyanide; fungicides; and defoliant.	Lb.	AGSU 8	XYZ	—	—	25	B
51470 Nicotine sulfate, 40 percent basis; copper sulfate, normal and basic; lead arsenate; and calcium arsenate.	Lb.	AGSU 8	YZ	—	—	—	B
51470 Insecticides, fumigants, and rodenticides, inorganic, excluding: agricultural insecticides; nematocides; soil fumigants; and crude cyanide.	Lb.	AGSU 8	YZ	—	—	—	B
51470 Industrial chemicals, as follows: cadmium sulfate; calcium polysulfide; calcium silicate; chalk, precipitated; dicalcium phosphate; epsom salts; ferrous carbonate; ferrous chloride; ferrous sulfate; iron chloride; iron phosphate; iron sulfate; iron sulfide, granular; lead arsenite; lime bisulfate; lime phosphate; magnesium arsenide; magnesium phosphate; magnesium silicate; magnesium silicofluoride; magnesium sulfate; magnesium trisilicate; monocalcium phosphate; monocalcium sulphate; palladium chloride; paladium salts and compounds; silver chlorides; silver cyanide,	Lb.	SALT 8	YZ	—	—	—	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
industrial; silver nitrate; silver sulfate; silver sulfide; sodium silico aluminate; talcum powder, precipitated, U.S.P. or C.P. (<i>excluding small packages</i>); zinc carbonate; zinc cyanide; zinc hydrosulfite; zinc nitrate; zinc phosphate; and zinc sulfate.							
51470 Ferrophosphorus, containing 15 percent or more by weight of phosphorus.	Lb.	MINL 8	Z	—	—	—	B
51470 Other inorganic chemicals, n.e.c. ¹ Radioactive and associated materials, <i>excluding uranium and thorium compounds</i>):	Lb.	SALT 8	XYZ	—	—	25	B
51500 Radioisotopes, cyclotron-produced or naturally occurring, and compounds and preparations thereof, <i>excluding radioisotopes having an atomic number 3 through 83, and compounds and preparations thereof; and except radium, radium salts and compounds.</i> ²	.....	DRUG 2	TVWXYZ	500	—	—	
51500 Polonium metal .....	.....	MINL 2	TVWXYZ	500	—	—	E-7
51500 Deuterium and compounds, mixtures and solutions containing deuterium, including heavy water and heavy paraffin. (Specify by name.)	.....	SALT 1	TVWXYZ	500	—	—	A E-13

¹ Military gases and ammonium perchlorate require export authorization from the Department of State. See paragraph 370.5 (a).
² Radioisotopes produced in a nuclear reactor, and compounds and preparations thereof, are under the jurisdiction of the Atomic Energy Commission. See paragraph 370.5 (d).

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Commodity Control List—399.1

51500-53290

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
51500 Polonium-bearing salts and compounds. (Specify by name.)	.....	SALT 2	TVWXYZ	500	—	—	E-13
51500 Yttrium salts and compounds. (Specify by name.)	.....	SALT 2	TVWXYZ	500	—	—	E-13
51500 Radium metal and alloys (radium content) ..	.....	MINL 8	YZ	—	—	—	B
51500 Other radioactive and associated materials, <i>except uranium and thorium compounds.</i>	.....	DRUG 8	XYZ	—	—	25	B
MINERAL TAR AND CRUDE CHEMICALS FROM COAL, PETROLEUM, AND NATURAL GAS							
52110 Mineral tar	Gal.	ORGN 8	Z	—	—	—	B
52130 Ammoniacal gas liquors and spent oxide pro- duced in coal gas purification.	Cont. Lb.	ORGN 8	XYZ	—	—	25	B
52140 Benzene	Gal.	ORGN 8	XYZ	—	—	25	B
52140 Toluene	Gal.	ORGN 8	WXYZ	—	—	25	B
52140 Creosote	Lb.	ORGN 8	YZ	—	—	—	B
52140 Other cyclic products of the distillation of coal tar.	Lb.	ORGN 8	XYZ	—	—	25	B
52140 Calodorant C®; Captan gas odorant®; ciga- rette lighter fluids; cleaner's naphtha; cleaning solvents; Graysol 375®; lacquer diluent; mineral turpentine; paint reducers, petroleum origin; paint thinners of mineral spirits; Panasol RY-3; petro- leum ether; petroleum solvent, aliphatic; petro- pene; preservatives for wood, textiles, leather and paper, chief value petroleum solvents and/or min- eral spirits; Renuzit®; Soltrol; Sovasol®; Staro- line spirits; Stoddard solvent; turpentine substi- tute, chief value petroleum; varnish makers' and painters' naphtha; Varsol®; and Varsol varno- line.®	Lb.	PETR 8	Z	—	—	—	B
52140 Other aliphatic products of the distillation of coal tar.	Lb.	PETR 8	YZ	—	—	—	B
DYEING, TANNING, AND COLORING MATERIALS							
53101 Synthetic organic dyestuffs; and natural indigo n.e.c.	Lb.	ORGN 8	XYZ	—	—	25	B
53102 Color lakes and toners (synthetic or organic pigments).	Lb.	ORGN 8	XYZ	—	—	25	B
53230 Chromium tanning mixtures.....	Lb.	SALT 8	XYZ	—	—	25	B
53230 Other synthetic organic dyestuffs; and natu- ral indigo.	Lb.	SALT 8	Z	—	—	—	B
53290 Tannic acids (tannins) and derivatives.....	Lb.	ORGN 8	XYZ	—	—	25	B
53290 Tanning and dyeing extracts of vegetable origin excluding natural indigo. [Report natural indigo in Export Control Commodity No. 53101.]	Lb.	TEXT 8	YZ	—	—	—	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
53290 Tanning and dyeing extracts of animal origin.	Lb.	AGRI 8	YZ	—	—	—	B
Pigments, paints, varnishes and related materials:							
53310 Coloring materials (composites), <i>the following only</i> : copper ore pigments; lead phosphate pigments; luminescent zinc pigments, not radioactivated.	Lb.	ORGN 8	YZ	—	—	—	B
53310 Mineral earth pigments, mixed.....	Lb.	ORGN 8	Z	—	—	—	B
53310 Other coloring materials (composites), n.e.c.	Lb.	ORGN 8	XYZ	—	—	25	B
53320 Printing inks	Lb.	ORGN 8	XYZ	—	—	25	B
53331 Prepared pigments, opacifiers, colors; liquid lustres and slips.							
53331 Glass frit and all other varieties of glass (including vitrite) in the form of powder, granules or flakes, whether or not colored or silvered; and vitreous enamels and glazes.	Lb.	MINL 8	Z	—	—	—	B
53332 Varnishes, finishes and enamels made of polypyromellitimide or polybenzimidazole. (Specify by name.)	Gal.	RESN 3	TVWXYZ	500	25	—	A E-3
53332 Finishes, enamels, and dispersions wholly made of fluorocarbon polymers and copolymers. (Specify by name.) (See § 399.2, Interpretation 22.)	Gal.	RESN 3	TVWXYZ	500	25	—	A E-3
53332 Finishes, enamels, and dispersions partially made of polytetrafluorochloroethylene. (Specify by name.)	Gal.	RESN 4	TVWXYZ	500	25	—	E-3
53332 Lacquers, <i>excluding aluminum, gold, pearl, and silver.</i>	Gal.	SALT 8	XYZ	—	—	25	B
53332 Lacquers, <i>the following only</i> : aluminum; gold; pearl; and silver.	Gal.	SALT 8	Z	—	—	—	B
53332 Varnishes, paints and related materials as follows: fluorescent ready-mixed; antifouling types (including all those containing cuprous oxide); and those containing silicones.	Gal.	SALT 8	XYZ	—	—	25	B
53332 Dyes and tints, household.....	Lb.	ORGN 8	YZ	—	—	—	B
53332 Pearl essence, natural.....	Gal.	AGRI 8	Z	—	—	—	B
53332 Other varnishes, lacquers, distempers, water pigments, paints and enamels.	Gal.	SALT 8	Z	—	—	—	B
53333 Artists' colors	Lb.	SALT 8	Z	—	—	—	B
53334 Prepared paint and varnish driers.....	Lb.	SALT 8	Z	—	—	—	B
53335 Putty, painters' fillings, and similar pastes..	Lb.	SALT 8	Z	—	—	—	B
MEDICAL AND PHARMACEUTICAL PRODUCTS							
54110 Vitamin feed supplements.....	Lb.	DRUG 8	YZ	—	—	—	B
54110 Other vitamins and provitamins (<i>excluding preparations of two or more substances, measured doses of medicinals whether or not as preparations, or medicinals packed for retail sale</i>).	Lb.	DRUG 8	XYZ	—	—	25	B

Commodity Control List—399.1

54130-54163

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
Antibiotics (excluding preparations of two or more substances, measured doses of medicinals whether or not as preparations or medicinals packed for retail sale):							
54130 Penicillin, bulk	Mill units	DRUG 8	XYZ	—	—	25	B
54130 Penicillin, dosage forms.....	Mill units	DRUG 8	YZ	—	—	—	B
54130 Antibiotic feed supplements containing not less than 100,000 units of penicillin per pound.	Mill units	DRUG 8	YZ	—	—	—	B
54130 Antibiotics, bulk, excluding penicillin.....	Cont. gram	DRUG 8	XYZ	—	—	25	B
54130 Antibiotics, dosage forms, excluding penicillin.	Cont. gram	DRUG 8	YZ	—	—	—	B
54130 Antibiotic feed supplements containing not less than 100,000 units of bacitracin per pound or not less than 1/10 gram of any other antibiotic per pound.	Cont. gram	DRUG 8	YZ	—	—	—	B
Vegetable alkaloids, their salts, and other derivatives (excluding preparations of two or more substances, measured doses of medicinals whether or not as preparations, or medicinals packed for retail sale):							
54140 Parenteral solutions, including ampoules....	Lb.	DRUG 8	YZ	—	—	—	B
54140 Other vegetable alkaloids, their salts, and other derivatives.	Lb.	DRUG 8	XYZ	—	—	25	B
Hormones (excluding preparations of two or more substances, measured doses of medicinals whether or not as preparations, or medicinals packed for retail sale):							
54150 The following hormones, including derivatives and preparations: Acth; cortisone; hydrocortisone; insulin, prednisolone; and prednisone.	Lb.	DRUG 8	YZ	—	—	—	B
54150 Other hormones, including derivatives and preparations.	Lb.	DRUG 8	XYZ	—	—	25	B
Glycosides and their derivatives (excluding preparations of two or more substances, measured doses of medicinals whether or not as preparations or medicinals packed for retail sale):							
54161 Aloin	Lb.	DRUG 8	YZ	—	—	—	B
54161 Other glycosides and their derivatives.....	Lb.	DRUG 8	XYZ	—	—	25	B
54162 Organo-therapeutic glands or other organs and their extracts (excluding preparations of two or more substances, measured doses of medicinals whether or not as preparations, or medicinals packed for retail sale).	.....	DRUG 8	XYZ	—	—	25	B
54163 Bacterial products, antisera, vaccines, toxins, and similar products, all forms. ¹	DRUG 8	XYZ	—	—	—	B

¹ Report ferments in "pound."

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54170

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
Medicinal chemicals (including compounds or mixtures of two or more products), bulk, n.e.c.:							
54170 Compounds or mixtures containing antibiotics and/or sulfonamides.	.....	DRUG 8	YZ	—	—	—	B
54170 Parenteral solutions (<i>excluding biologics, glandular products, sulfonamides, antibiotics and narcotics</i>).	.....	DRUG 8	YZ	—	—	—	B
54170 Betadiethylaminoethylidiphenylpropylacetate hydrochloride.	Lb.	DRUG 2	TVWXYZ	500	25	—	
54170 Medicinal chemicals, bulk, <i>the following only</i> : allantoin; allozane; alumidyne; Amigen®; antiseptic oil; antisepticum; apiol; apolysin; Apolamine® tablet granulation; arrhenal; Benadryl®; benzoinated lard; cafumal; colace; delcos; glycerite of hydrogen peroxide; glycerophosphates; glycerophosphoric acid and salts; guacamphol; guaicol glyceryl ether; guaiamar; guayacol hydrate; histamine; histamine phosphate; khellin; kola astier; Lyxanthine®; Mafarside®; Mandelamine powder®; menthol; Neo-Syneprine hydrochloride powder®; Neosyneprine crystals®; podophyllin; Pontalin granulation; Pontalin powder; prophenpyridamine maleate; Protolysate®; pyranisamine maleate; pyribenzamine base; pyridium bulk; pyrilamine maleate; rhubarb extract; senaga root extract, solid; Syntropan®; tannalbin; Tannigen®; Tapal®; thymol, thymol blue; thymol iodide; Vipeptolac®; wintodon granulation; any Wyamine sulfate.	.....	DRUG 8	YZ	—	—	—	B
54170 Other medicinal chemicals (including compounds or mixtures of two or more products), bulk. Pharmaceutical preparations, <i>excluding biologics for human use</i>:	.....	DRUG 8	XYZ	—	—	25	B
54170 Sulfonamide drugs, dosage forms, <i>excluding sulfathiazole and derivatives, and sulfadiazene and derivatives</i> ; antibiotics, dosage forms; parenteral solutions in ampoules; salves and ointments for burns, cuts, skin diseases, insect bites, and inflammation; cold, cough, bronchial, asthma, catarrh, and hay-fever preparations, <i>excluding vaccines</i> ; malaria, chill, and fever remedies; tonics, blood purifiers, emulsions and appetizers; headache, neuralgia and pain remedies; and elixirs, fluid extracts, tinctures, and similar liquid solutions.	.....¹	DRUG 8	YZ	—	—	—	B

® Trademark registered in the Patent Office of the United States.
¹ Report penicillins in "million units."

Commodity Control List—399.1

54170-54191

CCL-29

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
54170 Other drugs and medicinal preparations in dosage form, <i>the following only</i> : Acalo®; accordis tablets; Aegopodium®; Alcola®; alkarom; alkeme; Altepose tablets®; ammonium and methenamine chloride tablets; ammonium mandelate; Anachloric tablets®; Androm prophylactic®; Anolysen tablets®; Antepar Sirup®; Anticalculina®; apiol and ergot capsules; apioline; apiolinine; Avi-tab®; Avi-ton®; Becker's diuretic pills; caustic and stypitic pencils; chlorophyll; chlorophyll tablets; Crema Vermifuga; Cystex®; Dawes' Ad-Seal-In; Delbaise; dental medicinals; dioxygen; Dobell solution tablets; ear drops; eye drops; eye lotions; Floraquin® powder and tablets; Fostex cake®; Gastrogen tablets; Gelfoam® surgical sponges, dissolving type; Haarlem® oil; Haarlem® oil capsules; khellin; kidney pills; Mandalamine; Mandelico sirup; McCoy's tablets RX®; McCoy's special formula pills®; menthol; Mother Sill's seasick remedy®; Pabst's Special Okay®; Pabutole®; Phisoderm®; Phisohex®; pine extract; Poloris poultices®; Pontalin tablets; Posta-Cola; Pyridium®; Q-zeen®; S-Y tablets; saccharin, soluble and tablets; Sanmetto®; santal-MIDY; selsun sulfide suspension; Serenium tablets®; smelling salts; Sucaryl sodium®; suppositories, glycerin and medicated; Surgeons' lubricating jelly®; Topocaine dental anesthetics; vaginal creams and jellies; vermifuge; and patented medicinal preparations of crude drugs and/or herb extracts.	.....	DRUG 8	YZ	—	—	—	B
54170 Laxatives, antacids and digestants; liniments and corn and foot remedies. [Report corn plasters in Export Control Commodity No. 54191.]	.....	DRUG 8	Z	—	—	—	B
54170 Other pharmaceutical preparations, except biologicals, for human use.	.....	DRUG 8	XYZ	—	—	25	B
54170 Pharmaceutical preparations for veterinary use, <i>the following only</i> : veterinary biological products; sulfathiazole and derivatives; sulfadiazine and derivatives; and penicillin, bulk.	.....	DRUG 8	XYZ	—	—	25	B
54170 Other pharmaceutical preparations for veterinary use.	.....	DRUG 8	YZ	—	—	—	B
54191 Absorbent cotton, absorbent rayon staple, sterilized gauze, and sterilized bandages.	Lb.	TEXT 8	YZ	—	—	—	B
54191 Paper, prepared, medicinal.....	Lb.	TEXT 8	Z	—	—	—	B

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
54191 Other bandages, plasters, and similar articles, impregnated or coated with pharmaceutical products, or put up for retail sale.	Lb.	DRUG 8	Z	—	—	—	B
54199 Surgical and medical apparatus wholly made of polytetrafluoroethylene.	.....	SATE 1	TVWXYZ	500	25	—	A
54199 First aid boxes and kits (excluding diagnostic kits and medical kits used by doctors).	.....	SATE 8	XYZ	—	—	25	B
54199 Other pharmaceutical goods.....	.....	SATE 8	Z	—	—	—	B
54999 Medicinal and pharmaceutical products donated for relief or charity by individuals or private agencies.	.....	Export controls applicable to each commodity under this classification are those which apply to the commodity when exported commercially under its individual Export Control Commodity number.					
ESSENTIAL OILS AND PERFUME MATERIALS; TOILET, POLISHING, AND CLEANSING PREPARATIONS							
55110 Essential oils and resinoids.....	Lb.	DRUG 8	Z	—	—	—	B
55120 Odoriferous chemicals of natural origin.....	Lb.	DRUG 8	YZ	—	—	—	B
55120 Flavors and flavoring extracts, natural, and synthetic.	Lb.	AGRI 8	Z	—	—	—	B
55120 Other flavor and perfume materials, mixtures, and blends.	Lb.	DRUG 8	Z	—	—	—	B
55300 Disinfectants, deodorants, and germicides, household and industrial, n.e.c.	.....	DRUG 8	Z	—	—	—	B
55410 Soaps, excluding specialty cleaners.....	Lb.	AGRI 8	Z	—	—	—	B
55420 Detergents, excluding: Ethomid HT® 15; Intramin® WK and Y; and Permalene® A-100, A-120; and A-180.	Lb.	SALT 8	YZ	—	—	—	B
55420 Organic surface-active agents, the following only: Igepal® CO-408, CO-530, and CO-850; Mopelwet Z®; NSAE powder; Neutronyx 300 and 834; and Sequestrene® A, AA, and NA-2.	Lb.	SALT 8	YZ	—	—	—	B
55420 Specialty cleaning and washing compounds, excluding rifle cleaning compounds.	Lb.	SALT 8	YZ	—	—	—	B
55420 Other surface-active agents and washing preparations.	Lb.	SALT 8	XYZ	—	—	25	B
55430 Polishes, pastes, powder, and similar preparations for polishing and preserving leather, wood, metal, glass, and other materials.	Lb.	AGRI 8	Z	—	—	—	B
55430 Scouring cleansers; and leather dressings and finishes.	Lb.	AGRI 8	Z	—	—	—	B
55430 Shoe polishes and cleaners.....	Lb.	FINP 8	Z	—	—	—	B
55430 Other polishes, pastes, powder and similar preparations.	Lb.	SALT 8	Z	—	—	—	B

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Commodity Control List—399.1

56100-58110

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
FERTILIZERS, MANUFACTURED							
56100 Natural animal or vegetable fertilizers chemically treated; and mixed fertilizers, <i>excluding ammonium phosphates.</i>	S. ton	AGSU 8	YZ	—	—	—	B
56100 Superphosphate; and potassic fertilizer, <i>excluding potassium chloride.</i>	S. ton	AGSU 8	Z	—	—	—	B
56100 Other chemical fertilizers.....	S. ton	AGSU 8	XYZ	—	—	25	B
EXPLOSIVES AND PYROTECHNIC PRODUCTS							
57112 Oil well bullets; and jet perforators. ¹	Lb.	CONS 6	VWXYZ	—	—	—	E-12
57112 Prepared explosives and priming compositions containing one or more of the following chemicals: mercury fulminate; lead azide; lead styphnate; lead thiocyanate; tetrazine; or diazodinitrophenol.	Lb.	ORGN 3	TVWXYZ	500	25	—	A E-14
57112 Prepared explosives and priming compositions containing either or both of the following chemicals. barium styphnate; or lead dinitroresorcinat.	Lb.	SALT 2	TVWXYZ	500	25	—	E-14
57112 Other explosives. ²	Lb.	SALT 8	XYZ	—	—	25	B
57121 Mining, blasting and safety fuses. [Report ordnance fuses in Export Control Commodity No. 95106.]	Lin. ft.	ORGN 8	XYZ	—	—	25	B
57122 Electric squibs; Nos. 6 and 8 blasting caps, electric and nonelectric; delay electric blasting caps, including Nos. 6 and 8 and millisecond; seismograph electric blasting caps, including SSS, Static-Master, Vibrocap SR, and SEISMO SR. ³	Thousand	ORGN 8	XYZ	—	—	25	B
57130 Nonmilitary pyrotechnical articles. ⁴.....	.....	FINP 8	XYZ	—	—	25	B
57140 Shotgun shells	Thousand	FINP 8	XYZ ⁵	—	—	25	B
PLASTIC MATERIALS, REGENERATED CELLULOSE, AND ARTIFICIAL RESINS							
Condensation, polycondensation, and polyaddition products (unfinished or semifinished):							
58110 Polyester film as follows: (a) tensilized film, with thickness greater than 0.001 inch (0.0254 mm.) up to and including 0.0015 inch (0.038 mm.); and (b) untensilized film with thickness greater than 0.0007 inch (0.018 mm.) up to and including 0.0015 inch (0.038 mm.).	Lb.	RESN 2	TVWXYZ	500	25	—	E-3

¹ All oil well bullets, jet perforators, shaped charges or pellets used in oil well operations are under the jurisdiction of the Department of Commerce whether or not they contain explosive compounds mentioned on the Munitions List, paragraph 370.5(a).
² See paragraph 370.5(a) for explosives which require export authorization from the Department of State.
³ Other blasting caps, igniters and detonators require authorization from the Department of State. See paragraph 370.5(a).
⁴ Military pyrotechnical articles require export authorization from the Department of State. See paragraph 370.5(a).
⁵ A validated export license is also required for shipments of shotgun shells to the Republic of South Africa.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
58110 Synthetic film (including metallized) suitable for dielectric use (condenser tissue) 0.0015 inch (0.38 mm) or less in thickness, <i>excluding</i> (a) <i>ten-silized polyester film with a thickness greater than 0.001 inch (0.0254 mm) and</i> (b) <i>untensilized polyester film with a thickness of 0.0007 inch (0.018 mm) up to and including 0.001 inch (0.0254 mm).</i>	Lb.	RESN 1	TVWXYZ	500	25	—	A
58110 Fluorinated silicone rubbers and compounds. (Specify by name.)	Lb.	RUBR 1	TVWXYZ	500	25	—	A
58110 Silicone rubbers and compounds, <i>excluding fluorinated silicone.</i>	Lb.	RUBR 2	VWXYZ	—	500	—	E-1
58110 Acetal resins; and ion exchange resins (including membranes).	Lb.	RESN 8	WXYZ	—	—	25	B
58110 Other condensation, polycondensation, and polyaddition products (unfinished or semifinished). Polymerization and copolymerization products (unfinished or semifinished):	Lb.	RESN 8	XYZ	—	—	25	B
58120 Materials, unfinished or semifinished, designed and manufactured for use as absorbers of electromagnetic waves having frequencies greater than 200 megacycles per second.	Lb.	ELME 5	TVWXYZ	500	—	—	A
58120 Vinyl and vinyl copolymer resins, in unfinished and semifinished forms, (<i>excluding laminated, and excluding film and sheeting</i>) the following only: (a) polyvinyl fluoride, and (b) polyvinylidene fluoride.	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
58120 Diorgano siloxanes capable of being polymerized to rubbery products.	Lb.	RESN 2	TVWXYZ	500	100	—	E-3
58120 Fluorocarbon polymers and copolymers, unfinished or semifinished, <i>excluding when laminated or molded to other material.</i> (Specify by name.) (See § 399.2, Interpretation 22.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
58120 Polypyromellitimide, unfinished or semifinished.	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
58120 Polybenzimidazole, unfinished or semifinished.	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
58120 Pressure-type hose or tubing made of or lined with polytetrafluoroethylene.	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
58120 Laminates (including molded laminates and decorative laminates) partially made of polytetrafluoroethylene resins or polytrifluorochloroethylene resins. (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
58120 Polyvinyl butyral film and sheeting.....	Lb.	RESN 2	TVWXYZ	500	100	—	E-3
58120 Polyethylene film, sheeting or laminates containing any boron.	Lb.	RESN 8	WXYZ	—	—	25	B
58120 Methyl methacrylate, clear, film, sheeting or laminates, $\frac{1}{2}$ inch or more in thickness.	Lb.	RESN 8	WXYZ	—	—	25	B
58120 Ion exchange liquids.....	Lb.	RESN 2	TVWXYZ	500	25	—	E-3

Commodity Control List—399.1

58120-58132

CCL-32A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
58120 Ion exchange resins, the following: (a) copolymers of styrene and divinyl benzene in which the predominant functional groups are either quaternary ammonium derivatives (basic type), or the sulfonic radical (acidic type); (b) mixed bed formulations consisting principally of resins specified in (a) above; and (c) ion exchange membranes (all types).	Lb.	RESN 2	TVWXYZ	500	25	—	E-3
58120 Other ion exchange resins.....	Lb.	RESN 8	WXYZ	—	—	25	B
58120 Other polymerization and copolymerization products, unfinished or semifinished.	Lb.	RESN 8	XYZ	—	—	25	B
58131 Vulcanized fiber (unfinished or semifinished).	Lb.	RESN 8	XYZ	—	—	25	B
58132 Cellulose acetate film suitable for dielectric use, 0.0015 inch (0.038 mm.) or less in thickness.	Lb.	RESN 2	TVWXYZ	500	25	—	E-3
58132 Regenerated cellulose (except rayon) sheets and rolls, including printed.	Lb.	RESN 8	Z	—	—	—	B

(Next page is Commodity Control List—399.1—page 33)

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
58132 Other regenerated cellulose and chemical derivatives of cellulose.	Lb.	RESN 8	XYZ	—	—	25	B
58191 Hardened proteins. (Specify by chemical names.)	Lb.	RESN 8	XYZ	—	—	25	B
58192 Modified natural resins (including ester gum); chemical derivatives of natural rubber (all in unfinished or semifinished form).	Lb.	RESN 8	XYZ	—	—	25	B
58199 Materials designed and manufactured for use as absorbers of electro-magnetic waves having frequencies greater than 200 megacycles per second.	Lb.	ELME 1	TVWXYZ	500	—	—	A
58199 Other artificial resins and plastic materials, natural high polymers, except film and sheeting and laminates (all in unfinished or semifinished form). ¹	Lb.	ORGN 8	XYZ	—	—	25	B
CHEMICAL MATERIALS AND PRODUCTS, N. E. C.							
Insecticides, fungicides, disinfectants (including sheep and cattle dressing) and similar preparations which are (a) separate chemically defined products put up in forms or packings for retail sale (bulk forms are reported elsewhere in the Control List) or (b) preparations (mixtures) whether put up in bulk or for retail sale:							
59920 Weed killers, consisting primarily of boron compounds (for example, borates, borax).	Lb.	SALT 2	TVWXYZ	500	100	—	E-13
59920 Nicotine sulfate, 40 percent basis; copper sulfate; lead arsenate; calcium arsenate; paradichlorobenzene; benzene hexachloride, technical and formulations; fumigants; insecticides and other pesticides; disinfectants; deodorants; and germicides, <i>excluding the following products or preparations: Acrylon fumigant®; azobenzene fumigating powder; Blackleaf mosquito-fumer®; bug bombs (aerosol dispensers) containing over 16 ounces of insecticide; cyanide, crude; cyanogas; DD (dichloropropene-dichloropropane mixture); Dowfume W-85®; fumo gas; Hyamine® 10-X; methyl bromide; moth balls; naphthalene balls and flakes in packages exceeding 5 pounds; nematocides; nicotine fumigating powders; and soil fumigants.</i>	Lb.	AGSU 8	YZ	—	—	—	B
59920 Other insecticides, fungicides, disinfectants and similar products.	Lb.	AGSU 8	XYZ	—	—	25	B
59951 Inulin	Lb.	ORGN 8	XYZ	—	—	25	B
59951 Corn starch and other grain starches (including industrial type).	Lb.	AGRI 8	YZ	—	—	—	B

¹ Nitrostarch requires export authorization from the Department of State. See paragraph 370.5(a).
 ® Trademark registered in the United States Patent Office.

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59951-59972

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
59951 Vegetable starches	Lb.	AGRI 8	Z	—	—	—	B
59952 Gluten and gluten flour.....	Lb.	AGRI 8	YZ	—	—	—	B
59958 British gum	Lb.	SALT 8	XYZ	—	—	25	B
59958 Milk albumin and derivatives; and casein and derivatives, <i>excluding glue</i> .	Lb.	AGRI 8	YZ	—	—	—	B
59958 Albumins, <i>excluding milk albumin</i> ; casein glue; gelatin and gelatin derivatives, including glue.	Lb.	AGRI 8	YZ	—	—	—	B
59958 Albumins, <i>excluding milk albumin</i> ; gelatin and gelatin derivatives, <i>except glue</i> ; peptones and other protein substances and their derivatives.	Lb.	AGRI 8	Z	—	—	—	B
59958 Casein glue and other glue of animal or fish origin.	Lb.	FINP 8	Z	—	—	—	B
59961 Tall oil	Lb.	AGRI 8	YZ	—	—	—	B
59962 Concentrated sulfite lye.....	Lb.	AGRI 8	Z	—	—	—	B
59963 Terpenic solvents produced by treatment of coniferous woods.	Lb.	AGRI 8	YZ	—	—	—	B
59964 Prepared glazings, dressings, mordants and sizings (wood rosins, gum rosin, tall oil rosin and derivatives other than ester gums).	Lb.	AGRI 8	YZ	—	—	—	B
59965 Wood tar and wood tar oils.....	Lb.	AGRI 8	YZ	—	—	—	B
59965 Wood creosote	Lb.	ORGN 8	YZ	—	—	—	B
59965 Wood naphtha; and acetone oil.....	Lb.	ORGN 8	XYZ	—	—	25	B
59966 Wood pitch and products based thereon.....	Lb.	AGRI 8	YZ	—	—	—	B
59966 Vegetable pitch and products based thereon.	Lb.	AGRI 8	Z	—	—	—	B
59971 Polyethylene wax containing any boron....	Lb.	RESN 8	WXYZ	—	—	25	B
59971 Mineral waxes, modified.....	Lb.	MINL 8	XYZ	—	—	25	B
59971 Vegetable waxes, modified.....	Lb.	AGRI 8	Z	—	—	—	B
59971 Other artificial waxes and prepared waxes, not emulsified or containing solvents, <i>excluding lipstick waxes</i> .	Lb.	ORGN 8	XYZ	—	—	25	B
59971 Lipstick waxes	Lb.	ORGN 8	Z	—	—	—	B
Artificial and colloidal graphite:							
59972 Artificial graphite, whether or not contain- ing other materials to give improved performance at high temperatures, having an apparent relative density of 1.90 and greater, <i>excluding non-pyrolytic graphite of density between 1.90 and 1.95 when compared to water at 15.5° C. (60 F.)</i> .	Lb.	MINL 1	TVWXYZ	500	—	—	A
59972 Other artificial graphite in block, brick, plate, or rod form, smallest dimension 2 inches or over, having a boron content of one part per million or less. (Specify by name, size and boron content in parts per million.)	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
59972 Other pyrolytic graphite and products, n.e.c.	Lb.	MINL 2	TVWXYZ	500	—	—	
59972 Artificial non-pyrolytic graphite and prod- ucts, having an apparent relative density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.), in such forms as will not pass through a two-inch square hole.	Lb.	MINL 2	TVWXYZ	500	100	—	E-8

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
59972 Other artificial graphite products in block, brick, plate, or rod form, smallest dimension 2 inches or over. (Specify by name, size, and boron content in parts per million.)	Lb.	MINL 2	TVWXYZ	500	100	—	E-8
59972 Other artificial and colloidal graphite.	Lb.	MINL 8	YZ	—	—	—	B
59973 Animal black (for example, bone black)....	Lb.	SALT 8	XYZ	—	—	25	B
59974 Other prepared glazings, dressings, mordants, and sizes.	Lb.	SALT 8	Z	—	—	—	B
59975 Antiknock compounds; and additives for lubricating and fuel oils. ¹		PETR 8	WXYZ	—	—	25	B
59975 Liquid gum inhibitors for treating petroleum distillates.		ORGN 8	XYZ	—	—	25	B
59976 Prepared rubber accelerators containing selenium.	Lb.	SALT 8	XYZ	—	—	25	B
59976 Prepared rubber accelerators, <i>the following only</i> : Pentex.	Lb.	ORGN 8	YZ	—	—	—	B
59976 Other prepared rubber accelerators.....	Lb.	ORGN 8	XYZ	—	—	25	B
59977 Prepared culture media.....	Lb.	DRUG 8	XYZ	—	—	25	B
59978 Charges for fire extinguishers.....	Lb.	ORGN 8	XYZ	—	—	25	B
59991 Modelling pastes (clay).....	Lb.	MINL 8	Z	—	—	—	B
59991 Dental impression compounds.....	Lb.	SATE 8	Z	—	—	—	B
59992 Activated carbon and activated charcoal....	Lb.	SALT 8	XYZ	—	—	25	B
59992 Activated bauxite	Lb.	NONF 8	YZ	—	—	—	B
59992 Other activated natural mineral products...	Lb.	MINL 8	Z	—	—	—	B
59993 Ferrocerium and other pyrophoric alloys....	Lb.	MINL 8	YZ	—	—	—	B
59994 Pickling preparations for metal surfaces; auxiliary preparations for soldering, brazing, or welding (fluxes, powders, pastes), containing metal and other constituents.	Lb.	SALT 8	XYZ	—	—	25	B
59995 Composite solvents and thinners for varnishes and similar products.	Lb.	SALT 8	XYZ	—	—	25	B
59999 Molecular sieves, not loaded (for example, crystalline sodium aluminosilicate). (State type and form (such as powder, pellets).)	Lb.	SALT 2	TVWXYZ	500	100	—	
59999 Molecular sieves, loaded (for example, crystalline sodium aluminosilicate). (State type and form (such as powder, pellets), and identify the loading material.)	Lb.	SALT 2	TVWXYZ	500	50	—	
59999 Nickel catalysts	Lb.	SALT 8	WXYZ	—	—	25	B
59999 Cobalt catalysts and platinum catalysts useable in petroleum and chemical processing operations.	Lb.	SALT 8	WXYZ	—	—	25	B
59999 Organic chemical catalysts useable in petroleum and chemical processing operations.	Lb.	ORGN 8	WXYZ	—	—	25	B

¹ Report antiknock compounds in "pound."

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59999-62101

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
59999 Other catalysts useable in petroleum and chemical processing operations.	Lb.	SALT 8	WXYZ	—	—	25	B
59999 Other compound catalysts not useable in petroleum or chemical processing operations.	Lb.	SALT 8	XYZ	—	—	25	B
59999 Composite diagnostic reagents (other than those designed to be applied to the patient) and their composite laboratory reagents.	Lb.	ORGN 8	XYZ	—	—	25	B
59999 Hydraulic fluids, synthetic, formulated wholly or in part with silicones, organo-silicates, silanes, and fluorinated alcohol esters. (Specify by name.) (Bbl. of 42 gallons.)	Bbl.	ORGN 1	TVWXYZ	500	100	—	A E-14
59999 Hydraulic fluids, synthetic, diester types. (Specify by name.) (Bbl. of 42 gallons.)	Bbl.	ORGN 2	TVWXYZ	500	100	—	E-14
59999 Other liquids for hydraulic transmission, containing less than 70% by weight of petroleum or shale oils, n.e.c. (Bbl. of 42 gallons.)	Bbl.	ORGN 8	WXYZ	—	—	25	B
SECTION 6—MANUFACTURED GOODS CLASSIFIED CHIEFLY BY MATERIAL							
LEATHER, LEATHER MANUFACTURES, N.E.C., AND DRESSED FUR SKINS							
611 Leather. (Specify type.)	Sq. ft. ¹	TEXT 8	Z	—	—	—	B
61210 Machine leather belting and other articles of leather for use in machinery, including composition and reconstituted leather.	.....	TEXT 8	Z	—	—	—	B
61230 Rubber heels, soles, soling, top lifts, and top lift sheets.	.....	RUBR 8	YZ	—	—	—	B
61230 Uppers, legs, and other prepared parts of footwear of all materials except of asbestos and metals.	.....	TEXT 8	Z	—	—	—	B
61280 Other manufactures of leather, n.e.c., and saddlery and other harness makers goods of all materials.	.....	TEXT 8	Z	—	—	—	B
613 Fur skins, tanned or dressed, including dyed. (Specify by name and type.)	No.	TEXT 8	Z	—	—	—	B
RUBBER MANUFACTURES, N.E.C.							
62101 Rubber sheet, packing, and other unvulcanized rubber plates, sheets, and strips wholly made of fluorocarbon elastomers (polymers and copolymers). (Specify by name and type.) ²	Lb.	RUBR 1	TVWXYZ	500	50	—	A
62101 Masterbatches, in plates, sheets, or strips cis rubber types.	Lb.	RUBR 8	WXYZ	—	—	25	B
62101 Other unvulcanized rubber plates, sheets, and strips, n.e.c.	Lb.	RUBR 8	XYZ	—	—	25	B

¹ Report shipments of reconstituted and artificial leather in "pound."
² See § 399.2, Interpretation 22.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
62102 Unvulcanized rubber wholly made of fluoro-carbon elastomers (polymers and copolymers) in states or forms other than plates, sheets, or strips. (Specify by name.) ¹	Lb. ²	RUBR 1	TVWXYZ	500	25	—	A
62102 Tire sundries and repair materials, n.e.c., and tread rubber (Camelback).	Lb.	RUBR 8	YZ	—	—	—	B
62102 Other unvulcanized natural or synthetic rubber in states or forms other than plates, sheets or strips.	Lb.	RUBR 8	XYZ	—	—	25	B
62103 Rubber thread and cord, covered or bare. . . .	Lb.	RUBR 8	YZ	—	—	—	B
62105 Rubber hose lined with polytetrafluoroethylene, or wholly made of fluorocarbon elastomers (polymers and copolymers). (Specify by name.) ¹	Lb.	RUBR 1	TVWXYZ	500	50	—	A
62105 Rotary driller and vibrator hose and other rubber hose and tubing, n.e.c.	Lb.	RUBR 8	YZ	—	—	—	B
62910 Tires, of a kind specially constructed to be bullet proof or run when deflated. (Specify type.)	No.	RUBR 3	TVWXYZ	500	—	—	A
62910 Aircraft tires and inner tubes.	No.	RUBR 2	TVWXYZ	500	500	—	E-2
62910 Tires, of 10 ply rating or over, in sizes 9:00 or over.	No.	RUBR 8	WXYZ	—	—	25	B
62910 Other pneumatic tires, n.e.c., <i>excluding farm tractor and implement tires</i> . (Specify ply, size, and type.)	No.	RUBR 8	XYZ	—	—	25	B
62910 Farm tractor and implement tires; and solid and cushion tires, truck and industrial.	No.	RUBR 8	YZ	—	—	—	B
62910 Other solid and cushion tires; and tire flaps.	No.	RUBR 8	Z	—	—	—	B
62910 Inner tubes <i>excluding aircraft</i>	No.	RUBR 8	XYZ	—	—	25	B
62930 Atomizer bulbs, bath sprays, breast pumps, crib sheets, ice bags, medicine droppers (glass droppers with rubber sacs), nipple shields, nursers, nursing bottle nipples and teats, pacifiers, rubber sacs for medicine droppers, sponge bags, surgeon's aprons, teething rings, water bottles, water cushions, and water pillows.	.....	RUBR 8	Z	—	—	—	B
62930 Other hygienic and pharmaceutical articles of unhardened rubber.	.....	RUBR 8	YZ	—	—	—	B
62940 Transmission, conveyor or elevator belts and belting of rubber, including V belts.	Lb.	RUBR 8	YZ	—	—	—	B
62988 Packing materials, wholly made of fluoro-carbon elastomers (polymers and copolymers). ¹	Lb.	RUBR 1	TVWXYZ	500	50	—	A
62988 Other rubber packing.	Lb.	RUBR 8	XYZ	—	—	25	B
62988 Floor and wall coverings (including mats and matting), and foam rubber mattress, stripping, pillows, and sponges.	Lb.	RUBR 8	Z	—	—	—	B
62988 Foam rubber stripping; and rubber sponges.	Lb.	RUBR 8	Z	—	—	—	B
62988 Other sponge rubber, chemically blown and foam and products, n.e.c.	Lb.	RUBR 8	YZ	—	—	—	B
62988 Materials designed and manufactured for use as absorbers of electromagnetic waves having frequencies greater than 200 megacycles per second.	ELME 5	TVWXYZ	500	—	—	A

¹ See § 399.2. Interpretation 22.
² Report cement in "gallon."

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62988-63210

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
62988 Articles of unhardened vulcanized rubber, n.e.c., wholly made of fluorocarbon elastomers (polymers and copolymers). (Specify by name). ¹	Lb.	RUBR 1	TVWXYZ	500	50	—	A
62988 Rubber and friction tape (other than surgical or medicated), except silicone rubber insulating tape, and tape wholly made of fluorocarbon elastomers (polymers and copolymers).	Lb.	RUBR 8	YZ	—	—	—	B
62988 Other insulating tape, n.e.c.	Lb.	RUBR 8	YZ	—	—	—	B
62988 Rubber thread, textile covered or bare.	Lb.	RUBR 8	YZ	—	—	—	B
62988 Other articles of unhardened vulcanized rubber, n.e.c.	.....	RUBR 8	YZ	—	—	—	B
62989 Electrical battery boxes and jars, and parts. (Specify by name.)	Lb.	RUBR 8	XYZ	—	—	25	B
62989 Hard rubber goods, n.e.c., not specially fabricated for particular machines or equipment, excluding the following: ebonite sheets and sheeting, electrical; insulating material; insulators; rods, electrical; sheets, electrical; and tubes and tubing, electrical.	Lb.	RUBR 8	YZ	—	—	—	B
62989 Other hard rubber goods, n.e.c. (Specify by name.)	Lb.	RUBR 8	Z	—	—	—	B
WOOD AND CORK MANUFACTURES (EXCLUDING FURNITURE)							
63110 Veneer sheets, hardwood and softwood, all types, including utility, commercial, and container veneers.	Sq. ft.	AGRI 8	Z	—	—	—	B
63120 Plywood, softwood, interior only.	Sq. ft.	AGRI 8	Z	—	—	—	B
63120 Other plywood, including veneered wood panels and cellular wood panels.	Sq. ft.	AGRI 8	YZ	—	—	—	B
63141 Improved wood (densified and/or impregnated with resin or resin-like materials).	Lb.	AGRI 8	YZ	—	—	—	B
63142 Reconstituted wood (particle board)	Sq. ft.	AGRI 8	YZ	—	—	—	B
63181 Wood paving blocks. ....	.....	AGRI 8	Z	—	—	—	B
63182 Staves, riven or sawn, unfinished (stave-wood).	Set ²	AGRI 8	Z	—	—	—	B
63183 Hoopwood, chipwood, wood chips, excluding pulpwood, and poles, piles, posts, pickets, stakes, and similar products which are split, pointed, or both, but not sawn lengthwise.	.....	AGRI 8	YZ	—	—	—	B
63183 Pulpwood in chip form. (One unit of chips equals 200 cubic feet or 81.6 percent of a cord.)	Cord	AGRI 8	YZ	—	—	—	B
63186 Woodwool (excelsior) and wood flours.	Cord	AGRI 8	Z	—	—	—	B
63187 Wooden heading and moldings. ....	.....	AGRI 8	Z	—	—	—	B
63189 Wooden blocks, sticks, and rods suitable for shaping into tool handles, walking sticks, tooth picks, matches, and similar items.	.....	AGRI 8	Z	—	—	—	B
63210 Wooden boxes, cases, crates, drums, and similar packing containers, excluding cooperage products.	.....³	AGRI 8	Z	—	—	—	B

¹ See § 399.2, Interpretation 22.

² A "set" is sufficient staves for one barrel, hogshead, or cask.

³ Report box shook in "MBF."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
63220 Cooperage products, <i>excluding unfinished staves.</i>	.....¹	AGRI 8	Z	—	—	—	B
63240 Builders' woodwork and wood prefabricated buildings.	.....²	AGRI 8	Z	—	—	—	B
63271 Picture and mirror frames of wood.....	.....	AGRI 8	Z	—	—	—	B
63272 Household utensils of wood.....	.....	AGRI 8	Z	—	—	—	B
63273 Domestic or decorative articles of wood, n.e.c.	.....	AGRI 8	Z	—	—	—	B
63281 Tools, handles, shoe lasts and shoe trees, of wood.	.....	AGRI 8	Z	—	—	—	B
63282 Spools, caps, bobbins, and the like, of turned wood.	.....	AGRI 8	Z	—	—	—	B
63289 Battery separators and blanks and separator veneers; boat parts, small, machined to shape; patterns; portable floats; towers, windmill; and trestles.	.....	AGRI 8	XYZ	—	—	25	B
63289 Other articles of wood, n.e.c.....	.....³	AGRI 8	Z	—	—	—	B
633 Agglomerated cork; articles of natural or agglomerated cork.	Lb.	AGRI 8	Z	—	—	—	B
PAPER, PAPERBOARD, AND MANUFACTURES THEREOF							
64110 Newsprint paper	Lb.	TEXT 8	Z	—	—	—	B
64121 Thin, fine paper, including drawing and photographic base paper.	Lb.	TEXT 8	XYZ	—	—	25	B
64122 Thin fine coated paper (under 18 pounds), printing, writing, and photographic base stock.	Lb.	TEXT 8	XYZ	—	—	25	B
64122 Other coated paper, in rolls or sheets, as follows: groundwood paper (printing and writing); book paper (printing and writing); and fine paper (printing, writing, drawing, and photographic base paper).	Lb.	TEXT 8	Z	—	—	—	B
64130 Kraft paper, the following only: abrasive base stock; acid proof; ammunition; antacid-manila; base wad stock; buffing; cable base stock; cable filling, electrical; cover, for film; designers' pattern; cartridge stock; coilwinding; document, manila, file folder; document manila, tag; dynamite; electrical insulating; emery, base stock, expanding envelope stock; flat wallet stock; flint backing; frisket; garnet; gasket; graphite; guide stock; insulating, electrical, <i>excluding wet-machine</i> ; patch base stock; pattern stock; polishing; red foiling (cartridge paper); red patch base stock; sandpaper backing; shell stock; silk wrap stock; tympan; voice coil stock; wallet stock; washer stock; and dielectric, exceeding .002 of an inch in thickness; and thin fine paper (under 18 pounds).	Lb.	TEXT 8	XYZ	—	—	25	B

¹ Report barrels, hogsheds, and casks in "number"; and tight headings and tight staves in "sets".

² Report doors in "number".

³ Report pallets and skids in "number"; and pencil slats in "pencil gross".

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64130-64294

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
64130 Other kraft paper and kraft paperboard, uncoated.	Lb.	TEXT 8	Z	—	—	—	B
64140 Cigarette paper in bulk, rolls, sheets, or bobbins. [Report cigarette paper cut to size under Export Control Commodity No. 64291.]	Lb.	TEXT 8	Z	—	—	—	B
64160 Fiberboards and other building boards of wood pulp or of vegetable fibers, including insulating board.	Lb.	TEXT 8	Z	—	—	—	B
64180 Special industrial paper; and thin fine paper (under 18 pounds), uncoated, n.e.c.	Lb.	TEXT 8	XYZ	—	—	25	B
64180 Other machine-made paper and paperboard, simply finished, in rolls or sheets, n.e.c., and hand-made paper.	Lb.	TEXT 8	Z	—	—	—	B
64191 Parchment or greaseproof paper or paperboard, in rolls or sheets, including glassine, <i>excluding Kleerview® (lacquer-coated glassine paper)</i> .	Lb.	TEXT 8	Z	—	—	—	B
64191 Kleerview® (lacquer-coated glassine paper).	Lb.	TEXT 8	XYZ	—	—	25	B
64192 Composite paper and paperboard, in rolls or sheets including container board.	Lb.	TEXT 8	Z	—	—	—	B
64193 Paper and paperboard, corrugated, creped, crinkled, embossed, or perforated.	Lb.	TEXT 8	Z	—	—	—	B
64194 Ruled or squared paper and paperboard in rolls or sheets.	Lb.	TEXT 8	Z	—	—	—	B
64197 Wallpaper	Lb.	TEXT 8	Z	—	—	—	B
64199 Paper coated with gold powder; and fine paper (under 18 pounds), coated or processed, <i>excluding printing and writing</i> .	Lb.	TEXT 8	XYZ	—	—	25	B
64199 Asphalt and tar saturated paper, heavy construction type.	Lb.	TEXT 8	YZ	—	—	—	B
64199 Other processed paper and paperboard in rolls or sheets, n.e.c.	Lb.	TEXT 8	Z	—	—	—	B
64211 Shipping sacks, multiwall bags, specialty bags and liners, grocers', variety, wardrobe, shopping and other bags of paper; paperboard boxes (folding and set-up); corrugated and solid fiber boxes; paperboard and other fiber drums; fiber cans, tubes, and other fiber packing containers.	Lb.	SATE 8	Z	—	—	—	B
64212 Filing containers of paper or paperboard..	Lb.	TEXT 8	Z	—	—	—	B
64220 Envelopes, paper, of a kind used in correspondence, writing blocks, letter pads, and similar paper stationery for correspondence, <i>excluding letter paper</i> .	Lb. ¹	TEXT 8	Z	—	—	—	B
64230 Manifold business forms, blankbooks, loose-leaf binders and office stationery of paper and paperboard, n.e.c., <i>excluding correspondence goods</i> .	Lb.	TEXT 8	Z	—	—	—	B
64291 Cigarette paper cut to size, in books, blocks, and strips for rolling.	Lb.	TEXT 8	Z	—	—	—	B
64292 Carbon and other copying paper cut to size.	Lb.	TEXT 8	Z	—	—	—	B
64294 Bobbins, spools, caps, and other devices for winding or reeling, of pulp, paper, or paperboard.	Lb.	TEXT 8	Z	—	—	—	B

¹ Report envelopes unpackaged, in "thousand."
 ® Registered in the Patent Office of the United States.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
64298 Paper napkins, towels, facial tissues, handkerchiefs, toilet tissues and other sanitary tissue health products; and sanitary napkins and tampons.	Lb.	TEXT 8	Z	—	—	—	B
64298 Bituminous fiber pipe, sewer and drainage, conduit and fittings.	Lb.	TEXT 8	Z	—	—	—	B
64298 Other pressed and molded pulp goods.....	.....	TEXT 8	Z	—	—	—	B
64298 Letter paper, loose sheets or boxed; and cards for statistical machines.	M	TEXT 8	Z	—	—	—	B
64298 Office supplies, paper or paperboard, n.e.c....	Lb.	TEXT 8	Z	—	—	—	B
64298 Pressure sensitive tape, fluorocarbon polymer or copolymer. ¹ (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
64298 Pressure sensitive synthetic tape (including metallized) suitable for dielectric use (condenser tissue), 0.0015 inch (0.038 mm.) or less in thickness, excluding (a) tensilized polyester film with thickness greater than 0.001 inch (0.0254 mm.); and (b) untensilized polyester film with thickness of 0.0007 inch (0.018 mm.) up to and including 0.001 inch (0.0254 mm.).	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
64298 Pressure sensitive polyester tape suitable for dielectric use (condenser tissue) as follows: (a) tensilized film, with thickness; greater than 0.001 inch (0.0254 mm.) up to and including 0.0015 inch (0.038 mm.); and (b) untensilized film with thickness greater than 0.0007 inch (0.018 mm.) up to and including 0.0015 inch (0.038 mm.).	Lb.	RESN 4	TVWXYZ	500	25	—	E-3
64298 Other pressure sensitive tape and gummed products.	Lb.	TEXT 8	Z	—	—	—	B
64298 Processed paper for dielectric use.....	.....	TEXT 8	XYZ	—	—	25	B
64298 Other paper, paperboard, cellulose wadding or paper pulp products, n.e.c.	.....	TEXT 8	Z	—	—	—	B
TEXTILE YARN, FABRICS, MADE-UP ARTICLES, AND RELATED PRODUCTS							
65110 Silk yarn and thread. [Report metallized yarn and yarn spun with metal thread in any proportion in Export Control Commodity No. 65190.]	Lb.	TEXT 8	Z	—	—	—	B
65126 Yarn of coarse animal hair.....	Lb.	TEXT 8	Z	—	—	—	B
65126 Yarn of wool or of fine animal hair.....	Lb.	TEXT 8	YZ	—	—	—	B
65130 Cotton yarn and thread, gray (unbleached) and tire cord and tire cord fabric.	Lb.	TEXT 8	YZ	—	—	—	B
65140 Cotton yarn and thread, finished.....	Lb.	TEXT 8	YZ	—	—	—	B
65150 Yarn and thread of true hemp, flax, or ramie.	Lb.	TEXT 8	YZ	—	—	—	B
65162 Monofil wholly made of fluorocarbon polymers and copolymers. ¹ (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	50	—	A E-3
65162 Other noncellulosic man-made monofil.....	Lb.	TEXT 8	YZ	—	—	—	B
65166 Filament yarn and thread of filament yarn, wholly made of fluorocarbon polymers and copolymers. ¹ (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	50	—	A E-3

¹ See § 399.2, Interpretation 22.

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65166-65213

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65166 Nylon tire cord and tire cord fabric.	Lb.	TEXT 8	XYZ	—	—	25	B
65166 Other filament yarn, thread of filament yarn, tire cord, and tire cord fabric of noncellulosic man-made fibers.	Lb.	TEXT 8	YZ	—	—	—	B
65167 Thread of spun yarn wholly made of fluoro- carbon polymers and copolymers. ¹ (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	50	—	A
65167 Noncellulosic man-made fiber spun yarn; and other thread made of such yarn.	Lb.	TEXT 8	YZ	—	—	—	B
65172 Rayon or acetate monofil.	Lb.	TEXT 8	YZ	—	—	—	B
65176 Filament yarn and monofilaments, all twists (including thrown and plied yarns) of man-made fibers.	Lb.	TEXT 8	YZ	—	—	—	B
65176 Rayon high-tenacity filament yarn, cord, tire cord, and tire cord fabric.	Lb.	TEXT 8	XYZ	—	—	25	B
65177 Rayon or acetate spun yarn, including singles and plied.	Lb.	TEXT 8	YZ	—	—	—	B
65180 Continuous yarns, rovings and strands, suitable for use in filament wound structures having all of the following characteristics: (a) consisting of monofilaments 12 microns (0.00047 inch) or less in diameter, (b) modulus of elasticity greater than 11 times 10 ⁶ psi, and (c) tensile strength to density ratio (figure of merit) greater than 350,000 psi. ²	Lb.	FINP 1	TVWXYZ	500	—	—	A
65180 Other continuous yarns made of glass, having a modulus of elasticity of 10.5 times 10 ⁶ psi or greater or having a tensile strength to density ratio (figure of merit) of 300,000 psi or greater. ²	Lb.	FINP 2	TVWXYZ	500	—	—	
65180 Other glass fiber yarn, roving, and strand.	Lb.	FINP 8	XYZ	—	—	25	B
65190 Thread, gold, with textile.	Lb.	TEXT 8	XYZ	—	—	25	B
65190 Other yarns of textile fibers, n.e.c., including yarns of vegetable fibers, n.e.c., and paper yarns.	Lb.	TEXT 8	YZ	—	—	—	B
65211 Gauze, tobacco cloth, and cheese cloth, un- bleached, wholly or in chief weight cotton.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65212 Terry woven fabrics, unbleached, wholly or in chief weight cotton.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65213 Other fabrics, woven, unbleached, wholly or in chief weight cotton, duck and allied fabrics; drills, twills, and sateens; other sheeting, osna- burgs and allied fabrics; poplin and broadcloth; print cloth yarn fabrics; and tire fabrics, <i>exclud- ing tire cord fabric.</i>	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65213 Other broad woven cotton fabrics, n.e.c.	Sq. Yd. ³	TEXT 8	YZ	—	—	—	B

¹ See § 399.2. Interpretation 22.

² Tensile strength to density ratio (figure of merit) is tensile strength times (2.55 divided by specific gravity of the fiber).

³ Report in both "pound" and "square yard."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65221 Gauze, tobacco cloth, and cheesecloth, bleached, dyed, colored, or otherwise finished, wholly or in chief weight cotton.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65222 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd.	TEXT 2	TVWXYZ	500	—	—	
65222 Other terrywoven fabrics, bleached, dyed, colored, or otherwise finished, wholly or in chief weight cotton.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65223 Pile and chenille fabrics of cotton or chief weight cotton, n.e.c., bleached, dyed, colored, or otherwise finished.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65229 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd.	TEXT 2	TVWXYZ	500	—	—	
65229 Other woven fabrics, wholly or in chief weight cotton, bleached, dyed, colored, or otherwise finished, as follows: duck and allied fabrics; drills; twills; sateens; sheeting, osnaburgs, and allied fabrics, n.e.c.; broadcloth; print cloth yarn fabrics; denims; yarn-dyed shirtings, chambrays, and cheviots; gingham; poplins; lawns; organdies and batistes; napped broad woven fabrics; and drapery, upholstery and tapestry broad woven fabrics.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
66529 Other broad woven fabrics, bleached, dyed, colored, or otherwise finished, wholly or in chief weight cotton.	Sq. Yd. ¹	TEXT 8	YZ	—	—	—	B
65230 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Lb.	TEXT 2	TVWXYZ	500	—	—	
65230 Remnants and fabrics, n.e.c., less than 10 yards in length, broad woven, wholly or in chief weight cotton.	Lb.	TEXT 8	YZ	—	—	—	B
65301 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd.	TEXT 2	TVWXYZ	500	—	—	
65301 Broad woven fabrics wholly or in chief weight flax (linen) or jute.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65301 Broad woven fabrics wholly or in chief weight ramie or true hemp.	Sq. Yd.	TEXT 8	Z	—	—	—	B
65310 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd.	TEXT 2	TVWXYZ	500	—	—	
65310 Parachute cloth, wholly or in chief weight silk.	Sq. Yd.	TEXT 8	XYZ	—	—	25	B
65310 Other broad woven fabrics, wholly or in chief weight silk.	Sq. Yd.	TEXT 8	Z	—	—	—	B

¹ Report in both "pound" and "square yard."

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65321-65361

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65321 Other fabrics broad woven, wholly or in chief weight of wool and/or fine animal hair, <i>excluding pile or chenille.</i>	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65321 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd.	TEXT 2	TVWXYZ	500	—	—	
65322 Pile and chenille broad woven fabrics, wholly or in chief weight of wool and/or fine animal hair.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65351 Broad woven fabrics wholly made of fluorocarbon polymers and copolymers. ² (Specify by name.)	Sq. Yd. ¹	RESN 3	TVWXYZ	500	50	—	A E-3
65351 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd. ¹	TEXT 2	TVWXYZ	500	—	—	
65351 Woven tire fabrics and fuel-cell fabrics, wholly or in chief weight noncellulosic man-made fibers.	Sq. Yd. ¹	TEXT 8	XYZ	—	—	25	B
65351 Other broad woven fabrics, n.e.c., wholly or in chief weight noncellulosic man-made filament yarns and/or monofilaments.	Sq. Yd. ¹	TEXT 8	Z	—	—	—	B
65351 All parachute fabric, broad woven, wholly or in chief weight of noncellulosic filament yarns and monofilaments.	Sq. Yd. ¹	TEXT 8	WXYZ	—	—	25	B
65352 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd. ¹	TEXT 2	TVWXYZ	500	—	—	
65352 Broad woven fabrics wholly made of fluorocarbon polymers and copolymers. ² (Specify by name.)	Sq. Yd. ¹	RESN 3	TVWXYZ	500	50	—	A E-3
65352 Other broad woven fabrics, n.e.c., wholly or in chief weight noncellulosic man-made fiber spun yarns.	Sq. Yd. ¹	TEXT 8	Z	—	—	—	B
65352 All parachute fabric, broad woven, wholly or in chief weight of noncellulosic spun yarns.	Sq. Yd. ¹	TEXT 8	WXYZ	—	—	25	B
65353 Pile and chenille broad woven fabrics, wholly or in chief weight man-made fibers, n.e.c.	Sq. Yd. ¹	TEXT 8	Z	—	—	—	B
65354 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Lb.	TEXT 2	TVWXYZ	500	—	—	
65354 Other remnants and mill ends, less than 10 yards in length, broad woven, wholly or in chief weight of noncellulosic man-made fibers, except glass.	Lb.	TEXT 8	Z	—	—	—	B
65361 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd. ¹	TEXT 2	TVWXYZ	500	—	—	
65361 Other broad woven fabrics, n.e.c., wholly or in chief weight cellulosic filament yarns and/or monofilaments.	Sq. Yd. ¹	TEXT 8	Z	—	—	—	B
65361 All parachute cloth of fabrics, broad woven, wholly or in chief weight cellulosic filament yarns.	Sq. Yd. ¹	TEXT 8	WXYZ	—	—	25	B

¹ Report in both "pound" and "square yard."
² See § 399.2, Interpretation 22.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65362 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd. ¹	TEXT 2	TVWXYZ	500	—	—	
65362 Other broad woven fabrics, n.e.c., wholly or in chief weight cellulosic spun yarns.	Sq. Yd. ¹	TEXT 8	Z	—	—	—	B
65362 All parachute cloth of fabrics, broad woven, wholly or in chief weight of cellulosic spun yarns.	Sq. yd. ¹	TEXT 8	WXYZ	—	—	25	B
65363 Pile and chenille broad woven fabrics, wholly or in chief weight of rayon and/or acetate.	Sq. Yd. ¹	TEXT 8	Z	—	—	—	B
65364 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Lb.	TEXT 2	TVWXYZ	500	—	—	
65364 Other remnants and mill ends, less than 10 yards in length, broad woven, wholly or in chief weight of rayon and/or acetate.	Lb.	TEXT 8	Z	—	—	—	B
65370 Knit or crocheted fabrics, not elastic or rubberized, wholly or in chief weight of man-made fibers or silk.	Lb.	TEXT 8	Z	—	—	—	B
65370 Knit or crocheted fabrics, not elastic or rubberized, wholly or in chief weight of other textile fibers.	Lb.	TEXT 8	YZ	—	—	—	B
65380 Other broad or narrow woven fabrics, wholly or in chief weight glass fibers.	Lb. ¹	TEXT 8	Z	—	—	—	B
65380 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Sq. Yd. ¹	TEXT 2	TVWXYZ	500	—	—	
65390 Used or reject fabric bearing the design of any version of the flag of the United States of America.	Lb.	TEXT 2	TVWXYZ	500	—	—	
65390 Other broad woven fabrics, wholly or in chief weight jute or flax.	Lb.	TEXT 8	Z	—	—	—	B
65390 Other broad woven fabrics, wholly or in chief weight of textile fibers, n.e.c., including fabrics of coarse animal hair and of paper.	Lb.	TEXT 8	YZ	—	—	—	B
65401 Narrow woven fabrics wholly made of fluorocarbon polymers and copolymers. ² (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	50	—	A E-3
65401 Nylon webbing	Lb.	TEXT 8	XYZ	—	—	25	B
65401 Narrow woven fabrics, nonelastic, wholly or in chief weight of cotton, jute, flax, or wool.	Lb.	TEXT 8	YZ	—	—	—	B
65401 Other narrow woven fabrics, nonelastic, wholly or in chief weight of textile fibers, n.e.c.	Lb.	TEXT 8	Z	—	—	—	B
65402 Woven labels, badges, emblems, and insignia, excluding embroidered, wholly made of fluorocarbon polymers and copolymers. ² (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	50	—	A E-3
65402 Woven labels, badges, emblems, and insignia, excluding embroidered, wholly or in chief weight cotton, jute, flax, or wool.	Lb.	TEXT 8	YZ	—	—	—	B

¹ Report in both "pound" and "square yard."² See § 399.2, Interpretation 22.

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65402-65545

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65402 Woven labels, badges, emblems, and insignia, except embroidered, wholly or in chief weight of other textile fibers, n.e.c.	Lb.	TEXT 8	Z	—	—	—	B
65403 Trimmings, wholly made of fluorocarbon polymers and copolymers. ¹ (Specify by name.)	Lb.	RESN 1	TVWXYZ	500	50	—	A E-3
65403 Hat braid, all fibers; and other trimmings, nonelastic, wholly or in chief weight cotton, flax, wool, or metal.	Lb.	TEXT 8	YZ	—	—	—	B
65403 Other trimmings, nonelastic, wholly or in chief weight textile fibers.	Lb.	TEXT 8	Z	—	—	—	B
65406 Embroideries wholly or in chief weight cotton, flax or wool.	Lb.	TEXT 8	YZ	—	—	—	B
65406 Embroideries wholly or in chief weight of other textile fibers, n.e.c.	Lb.	TEXT 8	Z	—	—	—	B
65407 Lace machine fabrics, wholly or in chief weight cotton, flax, or wool.	Lb.	TEXT 8	YZ	—	—	—	B
65407 Lace machine fabrics, wholly or in chief weight of other textile fibers, n.e.c.	Lb.	TEXT 8	Z	—	—	—	B
65510 All flags of the United States of America, excluding new flags having 50 stars; and used or reject materials bearing the design of any version of the flag of the United States of America.	Lb.	TEXT 2	TVWXYZ	500	—	—	
65510 Coated or impregnated felt fabrics; and felts and felt articles wholly or in chief weight of cotton, jute, wool and/or wool-like specialty hairs.	Lb.	TEXT 8	YZ	—	—	—	B
65510 Other felts and felt articles, n.e.c.....	Lb.	TEXT 8	Z	—	—	—	B
65541 Bonded fabrics and articles wholly or in chief weight cotton or wool.	Lb.	TEXT 8	YZ	—	—	—	B
65541 Other bonded textile fiber fabrics and articles, n.e.c.	Lb.	TEXT 8	Z	—	—	—	B
65542 Fabrics wholly or in chief weight vegetable fiber other than flax, coated with gum or amylaceous substances; and cloth tape coated with gum or amylaceous substances.	Sq. Yd.	TEXT 8	Z	—	—	—	B
65542 Other textile fabrics coated with gum or amylaceous substances.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65543 Pyroxylin-coated or impregnated fabrics as follows: artificial leather remnants, textile base; book cloth; transparent tracing cloth, not sensitized; and cloth pressure sensitive or gummed tape coated or impregnated with any resin or plastic.	Sq. Yd.	TEXT 8	Z	—	—	—	B
65543 Other textile fabrics, n.e.c., coated or impregnated with resin or plastic materials.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65544 Oilcloth; and pressure sensitive or gummed tape coated or impregnated with oil.	Sq. Yd.	TEXT 8	Z	—	—	—	B
65544 Other textile fabrics, n.e.c., coated or impregnated with oil.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65545 Insulating tape and pressure sensitive tape wholly made of fluorocarbon elastomers (polymers and copolymers). ¹ (Specify by name.)	Lb.	RUBR 1	TVWXYZ	500	50	—	A

¹ See § 399.2, Interpretation 22.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65545 Silicone rubber insulating tape.....	Lb.	RUBR 2	VWXYZ	—	500	—	E-1
65545 Other rubber tape; and other rubberized fabrics employing synthetic rubber.	Sq. Yd. ¹	RUBR 8	YZ	—	—	—	B
65545 Other friction tape and rubberized textile fabrics.	Sq. Yd.	RUBR 8	Z	—	—	—	B
65546 Inked ribbon cloth for office machines; asphalt saturated or coated cloth; and pressure sensitive or gummed cloth tape, coated or im- pregnated, n.e.c.	Sq. Yd.	TEXT 8	Z	—	—	—	B
65546 Other textile fabrics, n.e.c., coated or im- pregnated.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65550 Elastic fabrics and trimmings, woven or braided.	Lb.	TEXT 8	YZ	—	—	—	B
65560 Cordage, cables, rope, and twine and manu- factures thereof, wholly made of fluorocarbon polymers and copolymers. ²	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
65560 Nylon fishing line, unfinished; nylon twine; and nylon rope.	Lb.	TEXT 8	XYZ	—	—	25	B
65560 Cordage, cables, rope, and twine and manu- factures thereof, wholly or in chief weight other textile fibers, n.e.c.	Lb.	TEXT 8	YZ	—	—	—	B
65560 Other cordage, cables, rope, and twine and manufactures thereof, wholly or in chief weight man-made fibers, hair, silk or paper.	Lb.	TEXT 8	Z	—	—	—	B
65570 Hat bodies, new, straw, palm leaf, and simi- lar fibers (natural or man-made), fur-felt; and wool felt.	Lb.	TEXT 8	Z	—	—	—	B
65570 Other hat bodies, new.....	Lb.	TEXT 8	YZ	—	—	—	B
65581 Wadding and articles of wadding (exclud- ing cellulose wadding), n.e.c., textile flock and dust and mill neps, wholly made of fluorocarbon poly- mers and copolymers. ² (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
65581 Wadding and articles of wadding (excluding cellulose wadding), n.e.c., textile flock and dust and mill neps, wholly or chief weight other man- made textile fibers.	Lb.	TEXT 8	Z	—	—	—	B
65581 Wadding and articles of wadding (excluding cellulose wadding), n.e.c., textile flock and dust and mill neps, wholly or chief weight of other textile fibers.	Lb.	TEXT 8	YZ	—	—	—	B
65584 Textile fabrics and articles used in machin- ery or plant, wholly made of fluorocarbon polymers and copolymers. ²	Lb.	RESN 3	TVWXYZ	500	25	—	A
65584 Rubber sheet packing; and nylon webbing for use in machinery or plant.	Lb.	TEXT 8	XYZ	—	—	25	B
65584 Textile fabrics and articles used in machin- ery or plant, wholly or chief weight of other synthetic textile fibers, vegetable fibers, hair, or silk.	Lb.	TEXT 8	Z	—	—	—	B

¹ See § 399.2, Interpretation 22.
² Report tape in "pound."

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65584-65692

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65584 Other textile fabrics and articles (excluding belting, tubing and hose) used in machinery or plant.	Lb.	TEXT 8	YZ	—	—	—	B
65590 Textile belting, tubing, and hose wholly made of fluorocarbon polymers and copolymers. ¹ (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
65590 Fire hose, wholly or in chief weight of textile fibers, n.e.c.	Lb.	FINP 8	XYZ	—	—	25	B
65590 Belting, tubing, and hose, wholly or in chief weight of other man-made fibers, vegetable fibers, hair or silk.	Lb.	TEXT 8	Z	—	—	—	B
65590 Belting, tubing, and hose, wholly or in chief weight of other textile fibers.	Lb.	TEXT 8	YZ	—	—	—	B
65610 Bags, new, used or reclaimed, wholly made of fluorocarbon polymers and copolymers. ¹ (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
65610 Bags, new, used or reclaimed, wholly or in chief weight of cotton, jute, or wool.	Lb.	TEXT 8	Z	—	—	—	B
65610 Bags, new, used or reclaimed, wholly or in chief weight of other textile materials.	Lb.	TEXT 8	YZ	—	—	—	B
65620 Sails of canvas.....	Lb.	CONS 8	XYZ	—	—	25	B
65620 Tarpaulins, tents, awnings, and other made-up canvas goods <i>excluding sails</i> , wholly or in chief weight cotton.	Lb.	TEXT 8	YZ	—	—	—	B
65620 Tarpaulins, tents, awnings, and other made-up canvas goods <i>excluding sails</i> , wholly or in chief weight of other textile materials.	Lb.	TEXT 8	Z	—	—	—	B
65662 Electric blankets, wholly or in chief weight of cotton.	Lb.	FINP 8	Z	—	—	—	B
65662 Blankets, wholly or in chief weight cotton, <i>except electric</i> .	Lb.	TEXT 8	YZ	—	—	—	B
65663 Electric blankets, excluding wholly or in chief weight cotton.	Lb.	FINP 8	Z	—	—	—	B
65663 Blankets, wholly or in chief weight of textile materials other than cotton or wool, <i>except electric</i> .	Lb.	FINP 8	Z	—	—	—	B
65663 Blankets, wholly or in chief weight wool, <i>except electric</i> .	Lb.	TEXT 8	YZ	—	—	—	B
65691 Linens and other furnishing articles, wholly or in chief weight cotton or wool (excluding knit, bonded, felt, quilted or stuffed articles).	Lb. ²	TEXT 8	YZ	—	—	—	B
65691 Linens and other furnishing articles, wholly or in chief weight of fibers other than cotton or wool (excluding knits, bonded, felt, quilted or stuffed articles).	Lb. ²	TEXT 8	Z	—	—	—	B
65692 All flags of the United States of America, <i>except new flags having 50 stars</i> .	Lb.	TEXT 2	TVWXYZ	500	—	—	
65692 Made-up textile articles, n.e.c., wholly made of fluorocarbon polymers and copolymers. ¹ (Specify by name.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3

¹ See § 399.2, Interpretation 22.

² Report bedspreads, bedsets, bed sheets, pillowcases, towels, and washcloths in both "pound" and "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
65692 Laundry and shoe garment bags, all textile materials; and other made-up articles wholly or chief weight other than man-made fibers, vegetable fibers, silk or hair.	Lb.	TEXT 8	Z	—	—	—	B
65692 Other made-up articles, n.e.c., wholly or in chief weight textile fibers.	Lb.	TEXT 8	YZ	—	—	—	B
65730 Carpets and rugs wholly in chief weight cotton, wool, or jute.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65730 Carpets and rugs, wholly or in chief weight of other textile fibers.	Sq. Yd.	TEXT 8	Z	—	—	—	B
65740 Vinyl asbestos tiles.....	Sq. Yd.	RESN 8	YZ	—	—	—	B
65740 Linoleum and similar floor coverings.....	Sq. Yd.	TEXT 8	Z	—	—	—	B
65770 Tapestries, hand woven or needle-worked, wholly or in chief weight cotton or wool.	Sq. Yd.	TEXT 8	YZ	—	—	—	B
65770 Other tapestries, hand-woven or needle-worked.	Lb.	TEXT 8	Z	—	—	—	E
65780 Mats, matting, screens, and other items, n.e.c. of cotton or jute plaiting materials.	.....	TEXT 8	YZ	—	—	—	B
65780 Mats, matting, screens, and other items, n.e.c. of other vegetable plaiting materials.	.....	TEXT 8	Z	—	—	—	B
NON-METALLIC MINERAL MANUFACTURES, N.E.C							
66110 Lime	Lb.	FINP 8	Z	—	—	—	B
66120 Magnesia cement containing 97 percent or more by weight of magnesium oxide.	Bbl.	FINP 2	TVWXYZ	500	—	—	E-8
66120 White non-staining hydraulic cement.....	Bbl.	FINP 8	XYZ	—	—	25	B
66120 Other cement	Bbl.	FINP 8	Z	—	—	—	B
66130 Building and monumental (dimension) stone, worked.	.....	FINP 8	Z	—	—	—	B
66181 Asphalt and tar roofing and siding, and other asphalt saturated heavy paper products for construction.	.....¹	FINP 8	YZ	—	—	—	B
66181 Other articles of asphalt or of similar materials.	.....¹	FINP 8	Z	—	—	—	B
66182 Building materials of vegetable substances agglomerated with mineral building substances.	.....	FINP 8	Z	—	—	—	B
66183 Asbestos-cement or fiber cement articles...	Lb.	FINP 8	YZ	—	—	—	B
66230 High-temperature refractory cements or bonding mortars, plastic and firebricks and similar shapes containing 97 percent or more by weight of magnesium oxide, beryllium oxide, or zirconium oxide, or containing zirconium oxide stabilized with lime and/or magnesium oxide. (Specify by name.)	Lb. ²	FINP 2	TVWXYZ	500	—	—	E-5
66230 Magnesite brick and similar shapes containing 97 percent or more by weight of magnesium oxide.	M	FINP 2	TVWXYZ	500	—	—	E-5 E-5

¹ Report asphalt tile in "square feet" and report asphalt and tar roofing and siding in "squares" (squares of 100 square feet).

² Report firebrick and similar shapes in "thousands."

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66230-66340

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
66230 Crucibles containing 97 percent or more by weight of magnesium oxide, beryllium oxide, or zirconium oxide stabilized with lime and/or magnesium oxide. (Specify number of crucibles, types of crucibles by type number, capacity of each in pounds, whether heavy or thin wall, and purity rating percent.)	Lb.	FINP 2	TVWXYZ	500	—	—	E-5
66230 Other refractories, n.e.c., containing 97 percent or more by weight of magnesium oxide, beryllium oxide, or zirconium oxide, or containing zirconium oxide stabilized with lime and/or magnesium oxide. (Specify by name.)	Lb.	FINP 2	TVWXYZ	500	100	—	E-5
66230 Other refractories (clay and nonclay)	Lb. ¹	FINP 8	XYZ	—	—	25	B
66241 Non-refractory building brick and structural hollow.	.....	FINP 8	Z	—	—	—	B
66246 Non-refractory ceramic tiles, pipes, and similar construction materials <i>excluding bricks</i>.	.....²	FINP 8	Z	—	—	—	B
66311 Diamond grinding wheels fabricated with polypyromellitimide. [Report net quantity of each commodity in terms of carat weight of embedded diamonds.]	Carat	TOOL 1	TVWXYZ	500	—	—	A
66311 Honing stones specially designed for gun barrel honing beads, hand and machine operated.	Lb.	TOOL 1	TVWXYZ	500	—	—	A
66311 Other diamond grinding and polishing wheels, and stones, for hand-, pedal-, or power-operated machines <i>excluding grindstones and pulpstones</i> . [Report net quantity in terms of carat weight of embedded diamonds.]	Carat	TOOL 8	XYZ	—	—	25	B
66311 Other grinding and polishing wheels, n.e.c., and stones, n.e.c., for hand-, pedal-, or power-operated machines <i>excluding grindstones and pulpstones</i> .	Lb.	TOOL 8	XYZ	—	—	25	B
66311 Pulpstone grinding and polishing wheels and stones for hand-, pedal-, or power-operated machines.	Lb.	TOOL 8	Z	—	—	—	B
66312 Whetstones (sticks, files, and blocks) of natural abrasives.	Lb.	FINP 8	YZ	—	—	—	B
66312 Whetstones (sticks, files, and blocks) of artificial abrasive material; oil stones, hones, and similar stones.	Lb.	TOOL 8	Z	—	—	—	B
66320 Abrasive paper and cloth, coated with manufactured abrasives, <i>excluding dental abrasives</i> .	Ream	TOOL 8	XYZ	—	—	25	B
66320 Abrasive paper and cloth, coated with natural abrasives, <i>excluding dental abrasives</i> .	Ream	FINP 8	YZ	—	—	—	B
66320 Dental abrasives; and coated abrasives, n.e.c.	.....³	FINP 8	Z	—	—	—	B
66340 Worked mica (including agglomerated mica splittings) and articles thereof.	Lb.	MINL 8	Z	—	—	—	B

¹ Report building brick other than ceramic-glazed building brick and structural hollow tile in "thousand."
² Report floor tile and wall tiles in "square feet."
³ Report dental abrasives in "ream."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
66350 Magnesia insulation blocks; and magnesia pipe covering.	.....	FINP 8	YZ	—	—	—	B
66350 Other mineral insulating materials, n.e.c...	.....	FINP 8	Z	—	—	—	B
66361 Articles of plaster.....	.....	MINL 8	Z	—	—	—	B
66362 Concrete products.....	.....	MINL 8	Z	—	—	—	B
66363 Magnesite brick and similar shapes containing 97 percent or more by weight of magnesium oxide.	M	FINP 2	TVWXYZ	500	—	—	E-5
66363 Magnesite brick and similar shapes containing less than 97 percent by weight of magnesium oxide; and magnesite-chrome brick and similar shapes.	M	FINP 8	XYZ	—	—	25	B
66363 Chrome and chrome-magnesite brick and similar shapes.	M	FINP 8	XYZ	—	—	25	B
66363 Lithium-containing minerals (for example, amblygonite, spodumene).	.....	MINL 1	TVWXYZ	500	25	—	A E-8
66363 Monocrystals of ferrites, and monocrystals of garnets, synthetic.	Lb.	MINL 1	TVWXYZ	500	—	—	A E-7
66363 Artificial graphite products, n.e.c., in block, plate, or rod form, smallest dimension 2 inches or over, having a boron content of one part per million or less. (Specify by name, size, and boron content in parts per million.)	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
66363 Artificial graphite products, n.e.c., whether or not containing other materials to give improved performance at high temperatures, having an apparent relative density of 1.90 and greater, excluding non-pyrolytic graphite of density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.).	.....	MINL 1	TVWXYZ	500	—	—	A
66363 Other pyrolytic graphite, and products thereof, n.e.c.	Lb.	MINL 2	TVWXYZ	500	100	—	
66363 Other artificial graphite products, n.e.c., in block, brick, plate, or rod form, smallest dimension 2 inches or over. (Specify by name, size, and boron content in parts per million.)	Lb.	MINL 2	TVWXYZ	500	100	—	E-8
66363 Other non-ceramic articles of mineral substances, n.e.c.	.....	MINL 8	Z	—	—	—	B
66370 Crucibles containing 97 percent or more by weight of magnesium oxide, beryllium oxide, or zirconium oxide; or containing zirconium oxide stabilized with lime and/or magnesium oxide. (Specify number of crucibles, types of crucibles by type number, capacity of each in pounds, whether heavy or thin wall, and purity rating (percent).)	Lb.	FINP 2	TVWXYZ	500	—	—	E-5
66370 Crucibles and other refractories of pyrolytic graphite.	Lb.	MINL 2	TVWXYZ	500	—	—	
66370 Other refractories, n.e.c., containing 97 percent or more by weight of magnesium oxide, beryllium oxide, or zirconium oxide, or containing zirconium oxide stabilized with lime and/or magnesium oxide. (Specify by name.)	Lb.	FINP 2	TVWXYZ	500	100	—	E-5

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66370-66420

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
66370 Crucibles and other refractories made of artificial graphite, whether or not containing other materials to give improved performance at high temperatures, having an apparent relative density of 1.90 and greater, <i>excluding nonpyrolytic graphite of density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.)</i> .	Lb.	MINL 1	TVWXYZ	500	—	—	A
66370 Other refractories made of non-pyrolytic artificial graphite having an apparent relative density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.), in such forms as will not pass through a two-inch square hole.	Lb.	MINL 2	TVWXYZ	500	—	—	
66370 Artificial graphite products, n.e.c., in block, brick, plate, or rod form, smallest dimension 2 inches or over, having a boron content of one part per million or less. (Specify by name, size and boron content in parts per million.)	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
66370 Other carbon or graphite products, n.e.c....	Lb.	MINL 8	YZ	—	—	—	B
66370 Other refractory products other than refractory construction materials.	Lb.	MINL 8	XYZ	—	—	25	B
66381 Asbestos packing with rubber binder....	Lb.	FINP 8	XYZ	—	—	25	B
66381 Pipe cement, cement compound containing asbestos fiber for joining pipe.	.....	FINP 8	Z	—	—	—	B
66381 Other asbestos manufactures, including gaskets and packing textiles and yarns.	Lb.	FINP 8	YZ	—	—	—	B
66382 Asbestos clutch facings, including linings; and asbestos brake linings.	Lb. ¹	TRAN 8	XYZ	—	—	25	B
66382 Friction materials of cellulose or of minerals other than asbestos.	.....	MINL 8	YZ	—	—	—	B
66391 Chemical and industrial pottery.....	.....	FINP 8	XYZ	—	—	25	B
66392 Other articles of ceramic materials.....	.....	MINL 8	Z	—	—	—	B
66401 Sheet (window) glass, plate glass, float glass, and cast or rolled glass, in rectangles, unworked or surface ground or polished, but not further worked, <i>excluding safety glass</i> .	Sq. ft.	FINP 8	Z	—	—	—	B
66413 Glass unworked in balls, rods, or tubes, <i>excluding pellets and graining marbles</i> .	Lb.	FINP 8	YZ	—	—	—	B
66413 Glass pellets; and glass graining marbles..	Lb.	FINP 8	Z	—	—	—	B
66414 Glass in the mass, waste glass, including enamel glass.	Lb.	FINP 8	Z	—	—	—	B
66420 Lens blanks of monocrystalline silicon or of silicon with a purity of 99.99 percent or more.	Lb.	RARA 1	TVWXYZ	500	50	—	A
66420 Lens blanks containing 99.9 percent to 99.99 percent silicon.	Lb.	RARA 2	TVWXYZ	500	50	—	
66420 Ophthalmic glass and ophthalmic lens blanks, n.e.c.	Lb.	SATE 8	YZ	—	—	—	B

¹ Report clutch facings and linings in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
66420 Synthetic crystals specially fabricated for equipment providing amplification or oscillation by means of stimulated electromagnetic radiation, such as Masers, Lasers, or Irasers. (Specify by name and type.)	Lb.	RARA 1	TVWXYZ	500	50	—	A
66420 Other optical glass and elements thereof, not optically worked.	Lb.	SATE 8	XYZ	—	—	25	B
66460 Construction materials of pressed or molded glass.	.....	FINP 8	Z	—	—	—	B
66470 Bulletproof windshields over 3/4 inch thick, specially fabricated for aircraft. ¹	Sq. ft.	TRAN 2	TVWXYZ	500	500	—	E-2
66470 Laminated glass and manufactures.....	Sq. ft.	FINP 8	XYZ	—	—	25	B
66470 Safety glass <i>excluding laminated</i>	Sq. ft.	FINP 8	Z	—	—	—	B
66480 Mirrors for automotive vehicles.....	.....	TRAN 8	XYZ	—	—	25	B
66480 Other glass mirrors.....	Sq. ft.	FINP 8	Z	—	—	—	B
66491 Sheet, plate, float and multiple wall and other glass, cut (other than into rectangles), bent or otherwise worked.	Sq. ft.	FINP 8	Z	—	—	—	B
66492 Electron tube blanks.....	No.	FINP 8	XYZ	—	—	25	B
66492 Other glass envelopes, n.e.c.....	No. ²	FINP 8	YZ	—	—	—	B
66943 Clock and watch glass and similar glasses with primary function of protection.	.....	FINP 8	Z	—	—	—	B
66493 Continuous rovings and tapes suitable for use in filament wound structures having all of the following characteristics: (a) consisting of monofilaments 12 microns (0.00047 inch) or less in diameter; (b) modulus of elasticity greater than 11 times 10 ⁶ psi; and (c) tensile strength to density ratio (figure of merit) greater than 350,000 psi.	Lb.	FINP 1	TVWXYZ	500	—	—	A
66494 Glass wool and other glass fiber insulating material.	.....	FINP 8	YZ	—	—	—	B
66494 Other articles of glass fiber, n.e.c.....	.....	FINP 8	XYZ	—	—	25	B
66511 Glass containers, including stoppers and closures of glass.	Gross	FINP 8	Z	—	—	—	B
66512 Inners for vacuum vessels.....	No.	FINP 8	XYZ	—	—	25	B
66520 Glass table ware and other articles of glass for household, hotel, and restaurant use.	.....³	FINP 8	Z	—	—	—	B
66581 Laboratory, hygienic, or pharmaceutical glassware.	.....	FINP 8	XYZ	—	—	25	B
66585 Glass products, n.e.c., not specially fabricated for particular machines or equipment, ball-tini reflective material; Foamglas®; floaters; glass fiber products, including filters; glass fibers not for weaving, knitting, and braiding; insulator brackets; Lamiglass®; and reflective highway marking beads.	.....	FINP 8	XYZ	—	—	25	B

¹ Windshields having a thickness exceeding 3/4 of an inch and specially fabricated for types of aircraft licensed by the U. S. Department of State also require export authorization from the Department of State. See paragraph 370.5(a).

² Report glass envelopes for electric light bulbs in "thousand."

³ Report machine-made glass tableware, kitchenware, and cooking ware in "dozen."

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66640-67160

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
66640 Porcelain or china household ware.....	Doz.	FINP 8	Z	—	—	—	B
66650 Household ware of other ceramic materials..	Doz.	FINP 8	Z	—	—	—	B
66660 Pottery: Porcelain or china householdware or other ceramic materials, ornaments, and furn- ishing goods of ceramic materials.	Doz.	FINP 8	Z	—	—	—	B
66700 Quartz crystals (natural and synthetic), un- processed, radio grade only. [Report optical qual- ity under Export Control Commodity No. 86111 and mounted under Export Control Commodity No. 72930.]	Lb.	RARA 1	TVWXYZ	500	50	—	A
66700 Diamonds, rough or uncut, suitable for cut- ting into gem stones.	Carat	FINP 8	XYZ	—	—	25	B
66700 Diamonds cut but unset, suitable for jewelry.	Carat	FINP 8	XYZ	—	—	25	B
66700 Diamonds (genuine or synthetic); diamond bearings; jewel bearings; rubies (genuine and syn- thetic); and sapphires (genuine and synthetic).	..... Carat	FINP 8	XYZ	—	—	25	B
66700 Other precious or semi-precious stones, un- worked or worked, not set or strung, n.e.c.	Carat	FINP 8	XYZ	—	—	25	B
IRON AND STEEL							
67120 Pig iron, including cast iron.....	S. ton	STEE 8	YZ	—	—	—	B
67131 Shot, angular grit and wire pellets of iron or steel.	Lb.	STEE 8	YZ	—	—	—	B
67134 Iron or steel powders, and sponge iron or steel.	Lb.	STEE 8	XYZ	—	—	25	B
Ferrous alloys:							
67140 Ferromanganese	S. ton	MINL 8	Z	—	—	—	B
67160 Ferromolybdenum	Lb.	MINL 4	TVWXYZ	500	100	—	E-7
67160 Ferroboron. [Report quantity in pounds, net weight, and specify pounds or percent of alloy content.]	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
67160 Ferrocobalt. [Report cobalt melting base materials under Export Control Commodity No. 66429.]	Lb.	MINL 5	TVWXYZ	500	100	—	A
67160 Ferrocolumbium. [Report quantity in pounds, net weight, and specify pounds or percent of columbium.]	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
67160 Ferrocolumbium-tantalum. [Report quantity in pounds, net weight, and specify pounds or per- cent of alloy content.]	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
67160 Ferrotantalum. [Report quantity in pounds, net weight, and specify pounds or percent of alloy content.]	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
67160 Ferrozirconium, containing more than 50 percent zirconium in which the ratio of hafnium content to zirconium content is less than one part to 500 parts by weight. [Report quantity in pounds, net weight, and specify pounds or percent of hafnium content.]	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67160 Other ferrozirconium, containing more than 50 percent zirconium. [Report quantity in pounds, net weight, and specify pounds or percent of hafnium content.]	Lb.	MINL 2	TVWXYZ	500	100	—	E-7
67160 Ferrovandium	Lb.	MINL 8	XYZ	—	—	25	B
67160 Ferrotitanium; ferrocobalt-titanium; and ferrotungsten.	Lb.	MINL 8	YZ	—	—	—	B
67160 Other ferroalloys, including spiegeleisen. [Report ferrocobalt and other pyrophoric ferrous alloys under Export Control Commodity No. 59993.]	Lb. ¹	MINL 8	Z	—	—	—	B
67210 Puddled bars and pilings, blocks, lumps, and other primary forms of iron or steel, n.e.c.	S. ton	STEE 8	WXYZ	—	—	25	B
67243 Billets, blooms, slabs, and sheet bars, alloy steel, special types Class 1. ^{2, 3}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-7
67243 Other billets, blooms, slabs, and sheet bars, alloy steel (including stainless), as follows: (a) containing 6 percent or more cobalt, (b) AISI type 309-S-Cb-Ta, or (c) containing a total of 35 percent or more of alloying elements. ^{2, 3}	S. ton	STEE 4	TVWXYZ	500	100	—	E-7
67243 Alloy steel (including stainless) billets, projectile and shell steel.	S. ton	STEE 8	WXYZ	—	—	25	B
67243 Billets, blooms, slabs, and sheet bars, alloy steel (including stainless), special types Class 2. ^{2, 3}	S. ton	STEE 8	WXYZ	—	—	25	B
67243 Other billets, blooms, slabs, and sheet bars, alloy steel (including stainless).	S. ton	STEE 8	XYZ	—	—	25	B
67244 Other blooms, billets, slabs, sheet bars, carbon steel (including projectile and shell steel).	S. ton	STEE 8	WXYZ	—	—	25	B
67244 Ingots, coils for rerolling, and blanks for tubes and pipes, carbon steel.	S. ton	STEE 8	XYZ	—	—	25	B
67273 Ingots, and tube rounds, alloy steel, special types Class 1. ^{2, 3}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-7
67273 Ingots, and tube rounds, alloy steel (including stainless), special types Class 2. ^{2, 3}	S. ton	STEE 8	WXYZ	—	—	25	B
67273 Other alloy steel (including stainless), ingots and tube rounds.	S. ton	STEE 8	XYZ	—	—	25	B
67274 Other ingots, and tube rounds, alloy steel, as follows: (a) containing 6 percent or more cobalt, (b) AISI type 309-S-Cb-Ta; or (c) containing a total of 35 percent or more of alloying elements. ^{2, 3}	S. ton	STEE 4	TVWXYZ	500	500	25	E-7
67290 Blanks for tubes and pipes of iron and steel.	S. ton	STEE 8	XYZ	—	—	25	B
67313 Wire rods (including stainless), alloy steel, special types Class 1. ^{2, 3}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67313 Wire rods (including stainless), as follows: (a) containing 6 percent or more cobalt, (b) AISI type 309-S-Cb-Ta, or (c) containing a total of 35 percent or more of alloying elements. ^{2, 3}	S. ton	STEE 4	TVWXYZ	500	100	—	E-8

¹ Report ferrosilicon and ferrochrome in "short tons."² For definition of "special types" of alloy steel, see § 399.2, Interpretations 8 and 9.³ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.

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67313-67323

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67313 Alloy steel, wire rods, special types Class 2. ¹	S. ton	STEE 8	WXYZ	—	—	25	B
67313 Other alloy steel, including wire rods.....	S. ton	STEE 8	XYZ	—	—	25	B
67314 Wire rod, carbon steel.....	S. ton	STEE 8	XYZ	—	—	25	B
67323 Tool steel bars, alloy steel, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67323 Tool steel bars, alloy steel, containing 6 per- cent or more cobalt. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67323 Tool steel bars, alloy steel, special types Class 2. ¹	S. ton	STEE 8	WXYZ	—	—	25	B
67323 Other alloy tool steel bars.....	S. ton	STEE 8	XYZ	—	—	25	B
67323 Alloy steel bars, hot-rolled: Other than tool steel, hot-rolled:							
67323 Alloy steel bars, hot-rolled, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67323 Alloy steel bars, hot-rolled, containing 6 per- cent or more cobalt. ²	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67323 Alloy steel bars, projectile and shell steel, hot rolled, excluding stainless.	S. ton	STEE 8	WXYZ	—	—	25	B
67323 Other bars, hot-rolled alloy steel, excluding stainless, special types Class 2. ¹	S. ton	STEE 8	WXYZ	—	—	25	B
67323 Other alloy, excluding stainless, steel bars..	S. ton	STEE 8	XYZ	—	—	25	B
67323 Stainless steel bars, hot-rolled, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67323 Nickel-bearing stainless steel bars, hot-rolled, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67323 Bars, hot-rolled, stainless steel, special types Class 2. ¹	S. ton	STEE 8	WXYZ	—	—	25	B
67323 Other stainless steel bars.....	S. ton	STEE 8	XYZ	—	—	25	B
67323 Alloy steel bars, cold-finished, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67323 Alloy steel bars, cold-finished, containing 6 percent or more cobalt. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67323 Bars, cold-finished, alloy steel, special types Class 2. ¹	S. ton	STEE 8	WXYZ	—	—	25	B
67323 Alloy, excluding stainless, steel bars.....	S. ton	STEE 8	XYZ	—	—	25	B
67323 Stainless steel bars, cold-finished, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67323 Nickel-bearing stainless steel bars, cold-fin- ished, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8

¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
² For definition of "special types" of alloy steel, see § 399.2, Interpretations 8 and 9.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67323 Bars, cold-finished stainless steel, special types Class 2. ²	S. ton	STEE 8	WXYZ	—	—	25	B
67323 Other stainless steel.....	S, ton	STEE 8	XYZ	—	—	25	B
67324 Tool steel (carbon).....	S. ton	STEE 8	XYZ	—	—	25	B
67324 Concrete reinforcing bars.....	S. ton	STEE 8	YZ	—	—	—	B
67324 Bars, projectile and shell steel, hot rolled carbon steel.	S. ton	STEE 8	WXYZ	—	—	25	B
67324 Other hot-rolled carbon steel bars.....	S. ton	STEE 8	XYZ	—	—	25	B
67324 Cold-finished carbon steel bars.....	S. ton	STEE 8	XYZ	—	—	25	B
67343 Structural shapes, not fabricated, alloy steel, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67343 Nickel-bearing stainless steel structural shapes, not fabricated, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ²	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67343 Alloy steel (including stainless) structural shapes, not fabricated, special types Class 2. ²	S. ton	STEE 8	WXYZ	—	—	25	B
67343 Other angles, shapes and sections, <i>excluding rails</i> , having a maximum cross sectional dimension of 3" or more of alloy steel.	S. ton	STEE 8	XYZ	—	—	25	B
67344 Sheet piling	S. ton	STEE 8	YZ	—	—	—	B
67344 Other angles, shapes, sections and sheet piling, <i>excluding rails</i> , having a maximum cross sectional dimension of 3" or more, of steel, other than alloy, or of iron.	S. ton	STEE 8	YZ	—	—	—	B
67353 Angles, shapes and sections, hot-rolled, <i>excluding stainless</i> , special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67353 Angles, shapes, and sections, hot-rolled, <i>excluding stainless</i> , containing 6 percent or more cobalt. ²	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67353 Stainless steel angles, shapes and sections, hot-rolled, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67353 Nickel-bearing stainless steel angles, shapes and sections, hot-rolled, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67353 Alloy angles, shapes and sections, cold-finished, <i>excluding stainless</i> , special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67353 Alloy steel angles, shapes and sections, cold-finished, <i>excluding stainless</i> , containing 6 percent or more cobalt. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67353 Stainless steel angles, shapes and sections, cold-finished, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8

¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
² For definitions of "special types" of alloy steel, see § 399.2, Interpretations 8 and 9.

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67353-67443

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67353 Nickel-bearing stainless steel angles, shapes, and sections, cold finished, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67353 Angles, shapes and sections, projectile and shell steel, hot rolled alloy steel, <i>excluding stainless</i> .	S. ton	STEE 8	WXYZ	—	—	25	B
67353 Angles, shapes and sections, hot-rolled and cold-finished alloy steel (including stainless), special types Class 2. ²	S. ton	STEE 8	WXYZ	—	—	25	B
67353 Other angles, shapes, and sections, having a maximum cross sectional dimension of less than 3 inches, of alloy steel.	S. ton	STEE 8	XYZ	—	—	25	B
67354 Angles, shapes, and sections, projectile and shell steel, hot rolled, carbon steel, having a maximum cross sectional dimension of less than 3 inches.	S. ton	STEE 8	WXYZ	—	—	25	B
67354 Other angles, shapes, and sections, having a maximum cross sectional dimension of less than 3 inches of steel, other than alloy, or of iron.	S. ton	STEE 8	XYZ	—	—	25	B
67443 Alloy steel plates, except stainless, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67443 Alloy steel plates, except stainless, suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67443 Stainless steel plates (including stainless-clad plates), special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67443 Nickel-bearing stainless steel plates (including stainless-clad plates), as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67443 Alloy steel sheets, cold-rolled, <i>excluding stainless</i> , special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67443 Stainless steel sheets, cold-rolled, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67443 Nickel-bearing stainless steel sheets, cold rolled, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8

¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
² For definitions of "special types" of alloy steel, see § 399.2, Interpretations 8 and 9.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	G.I.V. \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67443 Alloy steel sheets, hot-rolled, except stainless, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67443 Stainless steel sheets, hot-rolled, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67443 Nickel-bearing stainless steel sheets, hot-rolled, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67443 Other alloy, including stainless, steel plates and sheets.	S. ton	STEE 8	WXYZ	—	—	25	B
Plates and sheets, alloy steel, uncoated:							
67443 Electrical (silicon) steel strip, grain oriented, with a thickness of 0.004 inch (0.1 mm.) or less, regardless of core loss characteristics. (Specify thickness in decimal parts of an inch or in millimeters.)	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67443 Other electrical (silicon) steel as follows: (a) sheets or strip with a core loss of 0.45 watts per pound at 13,000 gauss and 50 cycles per second (0.62 watts per pound at 15,000 gauss and 50 cycles per second) or less regardless of thickness, or (b) strip with a thickness of 0.005 inch up to and including 0.008 inch (0.2 mm.), regardless of core loss characteristics or whether or not grain oriented. (Specify thickness in decimal parts of an inch or in millimeters, and specify core loss in watts per pound at flux density of either 13,000 or 15,000 gauss and at 50 cycles per second.)	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67443 Other sheets, electrical, alloy, <i>excluding stainless</i> .	S. ton	STEE 8	WXYZ	—	—	25	B
67444 Carbon steel sheets, electrical, uncoated; and carbon steel sheets, enameling.	S. ton	STEE 8	WXYZ	—	—	25	B
Sheets, except electrical and enameling:							
67444 Carbon steel sheets, hot-rolled, ungalvanized, suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67444 Carbon steel plates suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67444 Other hot-rolled carbon steel sheets.....	S. ton	STEE 8	WXYZ	—	—	25	B

¹ Specify recognized designation (AISI, SAE, NF number, etc.), or percentage of each alloying element.

² For definitions of "special types" of alloy steel, see § 399.2, Interpretation 8 and 9.

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67444-67503

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67444 Carbon steel sheets, cold-rolled, ungalvanized, suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67444 Carbon steel plates suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test. ¹	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67444 Carbon steel sheets, cold rolled, uncoated. ¹ . . .	S. ton	STEE 8	WXYZ	—	—	25	B
67444 Other plates, including black plate. ¹	S. ton	STEE 8	WXYZ	—	—	25	B
67470 Tinned plates and sheets as follows: hot dipped or electrolytic; circles; cobbles, shear butts, etc.; and decorated, embossed, lithographed, lacquered, etc.	S. ton	TNPL 8	WXYZ	—	—	25	B
67480 Carbon steel and alloy steel plates and sheets coated, except tinned, galvanized, and terne plate.	S. ton	STEE 8	WXYZ	—	—	25	B
67480 Carbon steel sheets, cold-rolled, galvanized, suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67480 Alloy steel sheets, cold-rolled, except stainless, special types, Class 1. ^{2, 3}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67480 Carbon steel plates suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67480 Alloy steel plates, <i>excluding stainless</i> , special types Class 1. ^{2, 3}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67480 Alloy steel plates, <i>excluding stainless</i> , suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67480 Other coated plates and sheets, n.e.c.	S. ton	STEE 8	WXYZ	—	—	25	B
67503 Alloy steel strip and skelp, hot-rolled, <i>excluding stainless</i> , special types Class 1. ^{2, 3}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8

¹ Armor plate requires export authorization from the Department of State. See paragraph 370.5(a).
² Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
³ For definitions of "special types" of alloy steel, see § 399.2, Interpretation 8 and 9.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67503 Alloy steel strip, and skelp, hot-rolled, <i>excluding stainless</i> , suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67503 Stainless steel strip, and skelp, hot-rolled, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67503 Nickel-bearing stainless steel strip, and skelp, hot-rolled as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67503 Other alloy steel strip, including stainless.	S. ton	STEE 8	WXYZ	—	—	25	B
67503 Skelp suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67503 Thermo bimetal, thermometal, and thermo-static metal, chief value steel.	S. ton	NONF 4	VWXYZ	—	100	—	E-8
Cold rolled except electrical:							
67503 Alloy steel strip, and skelp, cold-rolled, <i>excluding stainless</i> , special types, Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67503 Alloy steel strip, and skelp, cold-rolled, except stainless, suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67503 Other alloy steel, <i>excluding stainless</i>	S. ton	STEE 8	WXYZ	—	—	25	B
67503 Stainless steel strip and skelp, cold-rolled, special types, Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67503 Nickel-bearing stainless steel strip, and skelp, cold-rolled, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67503 Other stainless	S. ton	STEE 8	WXYZ	—	—	25	B
Hoop and strip, alloy steel:							
67503 Electrical (silicon) steel strip, grain oriented, with a thickness of 0.004 inch (0.1 mm.) or less, regardless of core loss characteristics. (Specify thickness in decimal parts of an inch or in millimeters.)	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8

¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
² For definitions of "special types" of alloy steel, see § 399.2. Interpretation 8 and 9.

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67503-67504

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67503 Electrical (silicon) steel as follows: (a) sheets or strip with a core loss of 0.45 watts per pound at 13,000 gaussess and 50 cycles per second (0.62 watts per pound at 15,000 gaussess and 50 cycles per second) or less regardless of thickness, or (b) strip with a thickness of 0.005 inch up to and including 0.008 inch (0.2 mm.), regardless of core loss characteristics or whether or not grain oriented. (Specify thickness in decimal parts of an inch or in millimeters, and specify core loss in watts per pound at flux density of either 13,000 or 15,000 gaussess and at 50 cycles per second.)	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67503 Other electrical	S. ton	STEE 8	WXYZ	—	—	25	B
Hoop and strip carbon steel:							
67504 Electrical (silicon) steel strip, grain oriented, with a thickness of 0.004 inch (0.1 mm.) or less, regardless of core loss characteristics. (Specify thickness in decimal parts of an inch or in millimeters.)	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67504 Other electrical (silicon) steel as follows: (a) sheets or strip with a core loss of 0.45 watts per pound at 13,000 gaussess and 50 cycles per second (0.62 watts per pound at 15,000 gaussess and 50 cycles per second) or less regardless of thickness, or (b) strip with a thickness of 0.005 inch up to and including 0.008 inch (0.2 mm.), regardless of core loss characteristics or whether or not grain oriented. (Specify thickness in decimal parts of an inch or in millimeters, and specify core loss in watts per pound at flux density of either 13,000 or 15,000 gaussess and at 50 cycles per second.)	S. ton	STEE 4	TVWXYZ	500	100	—	E-8
67504 Carbon steel strip, hot-rolled, gilding metal clad.	S. ton	STEE 5	TVWXYZ	500	100	—	A E-8
67504 Carbon steel strip, hot-rolled, suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67504 Skelp suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67504 Carbon steel strip, cold-rolled, gilding metal clad.	S. ton	STEE 5	TVWXYZ	500	100	—	A E-8
67504 Carbon steel strip, cold-rolled, suitable for making pipe having the following specifications: of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67504 Other electrical, galvanized, hot-rolled, or cold roll steel hoop and strip.	S. ton	STEE 8	WXYZ	—	—	25	B
67610 Rails of iron or steel.....	S. ton	STEE 8	YZ	—	—	—	B
67620 Sleepers and other railway track material of iron or steel, excluding castings.	S. ton	STEE 8	YZ	—	—	—	B
Iron and steel wire, bare, excluding wire rod, alloy steel:							
67703 Uncoated alloy steel wire, excluding stainless, special types Class 1. ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67703 Uncoated alloy steel wire, excluding stainless, as follows: glass to metal sealing alloys containing 6 percent or more cobalt. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
67703 Uncoated stainless steel wire, special types Class 1. ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67703 Uncoated nickel-bearing stainless steel wire, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
67703 Other alloy steel wire, including stainless.	Lb.	STEE 8	WXYZ	—	—	25	B
Iron and steel wire, bare, excluding wire rod, carbon steel:							
67704 Plain and galvanized wire.....	Lb.	STEE 8	XYZ	—	—	25	B
67704 Coated wire, steel chief value, excluding galvanized or insulated, special types Class 1. ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67704 Other coated wire, nickel-bearing stainless steel chief value, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
67704 Other coated, excluding galvanized.....	Lb.	STEE 8	WXYZ	—	—	25	B
67810 Cast iron pressure pipe and soil pipe.....	Lb.	STEE 8	YZ	—	—	—	B
Tube and pipe fittings of iron or steel:							
67850 For cast iron pressure pipe.....	Lb.	STEE 8	YZ	—	—	—	B
67850 For cast iron soil pipe.....	Lb.	FINP 8	YZ	—	—	—	B
67850 Forged steel pipe fittings having a pipe size connection greater than 19 inches o.d. and designed for a working pressure of over 300 psi as determined by API (American Petroleum Institute) test.	Lb.	STEE 6	VWXYZ	—	100	—	E-8

¹ Specify recognized designation (AISI, SAE, NE number, etc.), on percentage of each alloying element.
² For definitions of "special types" of alloy steel, see § 399.2, Interpretation 8 and 9.

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67850-67860

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67850 Other steel fittings.....	Lb.	STEE 8	YZ	—	—	—	B
67850 Malleable iron fittings.....	Lb.	STEE 8	YZ	—	—	—	B
67850 Other iron fittings.....	Lb.	STEE 8	YZ	—	—	—	B
Tubes and pipes, seamless—carbon steel:							
67860 Standard pipe	S. ton	STEE 8	XYZ	—	—	25	B
67860 Seamless line pipe, carbon steel, of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67860 Other line pipe.....	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Oil country goods.....	S. ton	STEE 8	XYZ	—	—	25	B
67860 Pressure tubing	S. ton	STEE 8	XYZ	—	—	25	B
67860 Mechanical tubing	S. ton	STEE 8	XYZ	—	—	25	B
67860 Other pipe and tubing, special types Class 2 ¹	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Other pipe and tubing.....	S. ton	STEE 8	XYZ	—	—	25	B
Tubes and pipes, seamless, alloy steel, except stainless:							
67860 Oil country goods.....	S. ton	STEE 8	XYZ	—	—	25	B
67860 Pressure tubes and tubing, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other pressure tubing.....	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Mechanical tubing, alloy steel, <i>excluding stainless</i> , special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other mechanical tubing.....	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Seamless line pipe, alloy steel, of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67860 Alloy steel pipe and tubing covered with polytetrafluoroethylene or polytrifluorochloroethyl- ene.	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Alloy steel pipe and tubing, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other pipe and tubing.....	S. ton	STEE 8	XYZ	—	—	25	B
Tubes and pipes, seamless, stainless steel:							
67860 Pressure tubes and tubing, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other pressure tubing, special type Class 2. ²	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Other pressure tubing.....	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Mechanical tubing	S. ton	STEE 8	WXYZ	—	—	25	B
Tubes and pipes, welded, clinched, etc. car- bon steel:							
67860 Standard pipe	S. ton	STEE 8	XYZ	—	—	25	B
67860 Welded line pipe, carbon steel, of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8

¹ For definition of "special types" of alloy steel see § 399.2, Interpretation 21.

² Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67860 Other line pipe.....	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Oil country goods.....	S. ton	STEE 8	XYZ	—	—	25	B
67860 Pressure tubing.....	S. ton	STEE 8	XYZ	—	—	25	B
67860 Mechanical tubing.....	S. ton	STEE 8	XYZ	—	—	25	B
67860 Penstock for conducting water; and steel culverts, vents.	S. ton	STEE 8	YZ	—	—	—	B
67860 Steel pipe, lined with polytetrafluoroethylene or polytrifluorochloroethylene.	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other carbon steel pipe, lined pipe, and tub- ing.....	S. ton	STEE 8	XYZ	—	—	25	B
Tubes and pipes—welded, clinched, etc., al- loy steel, except stainless:							
67860 Oil country goods.....	S. ton	STEE 8	XYZ	—	—	25	B
67860 Mechanical tubing, alloy, steel, <i>excluding stainless</i> , special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other mechanical tubing, special types Class 2. ²	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Welded line pipe, alloy steel, of a size greater than 19 inches o.d. and having a yield strength greater than 40,000 psi as determined by API (American Petroleum Institute) test.	S. ton	STEE 6	VWXYZ	—	100	—	E-8
67860 Welded pressure tubes and tubing, alloy steel, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Alloy steel pipe and tubing covered with polytetrafluoroethylene or polytrifluorochloroethyl- ene; pipe assemblies made of, lined with, or cov- ered with polytetrafluoroethylene, or polytrifluoro- chloroethylene.	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Alloy steel pipe and tubing, special types Class 1. ^{1, 2}	S. ton	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other tubes and pipes, welded, special type Class 1 ²	S. ton	STEE 8	WXYZ	—	—	25	B
67860 Pipe and tubing, stainless steel, special types only. ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67860 Other nickel-bearing stainless steel pipe and tubing as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
67860 Tubes and pipes—welded, clinched, etc.— stainless steel, special types Class 2. ²	Lb.	STEE 8	WXYZ	—	—	25	B
Iron castings in the rough state:							
67910 Grey iron or malleable.....	S. ton	STEE 8	YZ	—	—	—	B
67920 Carbon steel castings in the rough state....	Lb.	STEE 8	YZ	—	—	—	B

¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
² For definition of "special types" of alloy steel, see § 399.2, Interpretation 21.

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67920-68212

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
67920 Alloy steel castings, <i>excluding stainless</i> , special types Class 1. ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67920 Stainless steel castings, special types Class 1. ^{1, 2} <i>except grinding balls</i> .	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67920 Nickel-bearing stainless steel castings as follows, <i>excluding grinding balls</i> : (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67920 Alloy steel castings, including stainless, special types Class 2. ²	Lb.	STEE 8	WXYZ	—	—	25	B
67920 Other alloy steel.....	Lb.	STEE 8	YZ	—	—	—	B
67930 Carbon steel forgings, including drop, in the rough state.	Lb.	STEE 8	YZ	—	—	—	B
67930 Forgings, alloy steel, including stainless, special types Class 1. ^{1, 2} <i>excluding grinding balls</i> .	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
67930 Nickel-bearing stainless steel forgings as follows, <i>excluding grinding balls</i> : (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
67930 Forgings, alloy steel (including stainless), special types Class 2. ²	Lb.	STEE 8	WXYZ	—	—	25	B
67930 Other alloy steel including stainless steel...	Lb.	STEE 8	YZ	—	—	—	B
NON-FERROUS METALS (IN THE ABSENCE OF CONTENT WHICH REQUIRE OTHERWISE, THE NAME OF A PARTICULAR METAL—E.G., SILVER —INCLUDES ALLOYS OF THAT METAL— E.G., SILVER ALLOY)							
68050 Silver ore and base bullion.....	Cont.	MINL 8	YZ	—	—	—	B
68060 Silver bullion, refined.....	Troy oz. Cont.	MINL 8	YZ	—	—	—	B
68070 Silver coin, United States.....	Troy oz.	MINL 8	YZ	—	—	—	B
68080 Silver coin, Foreign, monetary.....	Troy oz.	MINL 8	YZ	—	—	—	B
68111 Silver-copper, brazing alloy.....	Troy oz.	NONF 8	WXYZ	—	—	25	B
68111 Silver, unwrought or partly worked, not rolled.	Troy oz.	FINP 8	YZ	—	—	—	B
68112 Rolled silver, unworked or partly worked...	Troy oz.	FINP 8	YZ	—	—	—	B
68120 Platinum and other metals of platinum group, unworked or partly worked, n.e.c.	Troy oz.	MINL 8	YZ	—	—	—	B
68120 Platinum and platinum alloys for dental use.	Troy oz.	SATE 8	XYZ	—	—	25	B
68211 Blister copper and other unrefined copper..	Lb.	NONF 6	TVWXYZ	500	500	—	E-7
68212 Refined copper, including remelted, in cathodes, billets, ingots, wire bars, and other crude forms. (See § 373.41.)	Lb.	NONF 6	TVWXYZ	500	500	—	E-7

¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
² For definitions of "special types" of alloy steel, see § 399.2, Interpretation 8 and 9.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
68213 Master alloys of copper. (Specify percentage of each alloying element, or the recognized standard and commercial brand or trade name.) (See § 373.43.)	Lb.	NONF 6	TVWXYZ	500	500	—	E-7
68221 Bars, rods, angles, shapes, sections, and wire of copper, <i>excluding copper-base alloys in semi-fabricated forms.</i>	Lb.	NONF 8	WXYZ	—	—	25	B
68221 Copper-base alloys in semi-fabricated forms.	Lb.	NONF 8	XYZ	—	—	25	B
68222 Plates, sheets, and strips of copper.....	Lb.	NONF 8	WXYZ	—	—	25	B
68223 Copper foil	Lb.	FINP 8	XYZ	—	—	25	B
68223 Paper backed copper foil.....	Lb.	TEXT 8	Z	—	—	—	B
68224 Copper powders and flakes.....	Lb.	NONF 8	XYZ	—	—	25	B
68225 Tubes, pipes, and blanks therefor, and hollow bars of copper.	Lb.	NONF 8	WXYZ	—	—	25	B
68226 Tube and pipe fittings of copper base alloy..	Lb.	NONF 8	XYZ	—	—	25	B
68226 Tube and pipe fittings of copper.....	Lb.	NONF 8	YZ	—	—	—	B
68310 Nickel silicon shot ("F" shot); and nickel alloys, unwrought containing 32 percent or more nickel, <i>except nickel-copper alloys containing not more than 6 percent of other alloying elements.</i> (Specify by name with complete metal analysis.)	Lb.	NONF 6	TVWXYZ	500	100	—	E-8
68310 Other nickel and nickel alloys, unwrought.. Bars, rods, angles, shapes, sections, and wire of nickel:	Lb.	NONF 8	WXYZ	—	—	25	B
68321 Bars, rods, angles, shapes, sections, and wire of nickel alloy containing 32 percent or more nickel, <i>excluding nickel-copper alloys containing not more than 6 percent of other alloying elements.</i> (Specify by name with complete metal analysis.)	Lb.	NONF 6	TVWXYZ	500	100	—	E-8
68321 Wire containing 32 percent or more nickel, <i>except nickel-copper alloys containing not more than 6 percent of other alloying elements.</i> (Specify by name with complete metal analysis.)	Lb.	NONF 6	TVWXYZ	—	100	—	E-8
68321 Thermocouple nickel chrome wire up to and including 5.0 mm. in diameter, <i>except nickel-chrome electric resistance wire.</i>	Lb.	NONF 6	TVWXYZ	500	100	—	E-8
68321 Other bars, rods, angles, shapes, sections and wire of nickel. Plates, sheets, strips, foil, powders, and flakes of nickel:	Lb.	NONF 8	WXYZ	—	—	25	B
68322 Thermo bimetal, thermometal, and thermostatic metal, chief value nickel.	Lb.	NONF 2	VWXYZ	—	100	—	E-8
68322 Bi-metallic strip for thermostats; and plates, sheets, and strips of nickel alloy containing 32 percent or more nickel, <i>except nickel-copper alloys containing not more than 6 percent of other alloy elements.</i> (Specify by name with complete metal analysis.)	Lb.	NONF 6	TVWXYZ	500	100	—	E-8

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68322-68423

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
68322 Nickel powders with a particle size less than 200 microns. (Specify by name.)	Lb.	NONF 7	TVWXYZ	500	100	—	A E-7
68322 Nickel powders with a particle size of 200 microns or over; and other nickel powder and flakes containing 32 percent or more nickel, <i>excluding nickel-copper alloy powders and flakes containing not more than 6 percent of other alloying elements.</i> (Specify by name with complete metal analysis.)	Lb.	NONF 6	TVWXYZ	500	100	—	E-7
68322 Nickel alloy foil (less than .006 of an inch in thickness) containing 32 percent or more nickel, <i>excluding nickel-copper alloy foil containing not more than 6 percent of other alloying elements.</i> (Specify complete metal analysis.)	Lb.	NONF 6	TVWXYZ	500	100	—	E-8
68322 Paper backed nickel foil.....	Lb.	TEXT 8	Z	—	—	—	B
68322 Other nickel and nickel alloy plates, sheets, strips, powders, flakes, and foil.	Lb.	NONF 8	WXYZ	—	—	25	B
68323 Tubes, pipes, blanks and fittings therefor and hollow bars of nickel containing 32 percent or more nickel, <i>excluding nickel-copper alloys containing not more than 6 percent of other alloying elements.</i> (Specify by name with complete metal analysis.)	Lb.	NONF 6	TVWXYZ	500	100	—	E-8
68323 Other tubes, pipes, blanks and fittings therefor and hollow bars of nickel.	Lb.	NONF 8	WXYZ	—	—	25	B
68324 Electroplating anodes of nickel.....	Lb.	NONF 8	WXYZ	—	—	25	B
68401 Extrusion billet, special types only. ¹	Lb.	NONF 8	WXYZ	—	—	25	B
68401 Other extrusion billet.....	Lb.	NONF 8	YZ	—	—	—	B
68401 Continuous cast rods and bars (under 3/8 inch) special types only. ¹	Lb.	NONF 8	WXYZ	—	—	25	B
68401 Other continuous cast rods and bars.....	Lb.	NONF 8	XYZ	—	—	25	B
68401 Other unwrought forms, special types only. ¹	Lb.	NONF 8	WXYZ	—	—	25	B
68401 Other unwrought forms.....	Lb.	NONF 8	YZ	—	—	—	B
68401 Wire, bare, and rolled bars, rods, angles, shapes, and sections (under 3/8 inch) special types only. ¹	Lb.	NONF 8	WXYZ	—	—	25	B
68401 Other bare wire, and other rolled bars, rods, angles, shapes, and sections.	Lb.	NONF 8	XYZ	—	—	25	B
68401 Extruded bars, rods, angles, shapes, and sections, special types only. ¹	Lb.	NONF 8	WXYZ	—	—	25	B
68401 Other extruded bars, rods, angles, shapes, and sections.	Lb.	NONF 8	XYZ	—	—	25	B
68422 Plates and sheets of aluminum alloy (0.006 inch and over in thickness), special types only. ¹	Lb.	NONF 8	WXYZ	—	—	25	B
68422 Plates and sheets of aluminum.....	Lb.	NONF 8	YZ	—	—	—	B
68423 Aluminum and aluminum alloy foil.....	Lb.	NONF 8	XYZ	—	—	25	B

¹ For export control purposes, "special types" of aluminum alloys are defined as those which have (1) an average copper content of 1 percent or more irrespective of other elements; or (2) an average copper content of less than 1 percent and (a) a zinc content of 4 percent or more, (b) a silicon content of 3.5 percent or more, or (c) a magnesium content of 9.5 percent or more.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
68423 Paper backed aluminum and aluminum alloy foil.	Lb.	TEXT 8	Z	—	—	—	B
68423 Aluminum and aluminum foil and leaf (less than 0.006 inch in thickness).	Lb.	NONF 8	Z	—	—	—	B
68424 Aluminum powder, flakes, and paste.....	Cont. lb.	NONF 8	XYZ	—	—	25	B
68425 Aluminum and aluminum alloy electrical conduit.	Lb.	FINP 8	Z	—	—	—	B
68425 Tubes, pipes, and tube blooms of aluminum, special types only. ¹	Lb.	NONF 8	WXYZ	—	—	25	B
68425 Other tubes, pipes, and tube blooms of aluminum.	Lb.	NONF 8	YZ	—	—	—	B
68426 Tube and pipe fittings of aluminum and aluminum alloy.	Lb.	NONF 8	YZ	—	—	—	B
68426 Aluminum and aluminum alloy plumbing fittings.	Lb.	NONF 8	Z	—	—	—	B
68510 Lead and lead alloy solder.....	Lb.	NONF 8	YZ	—	—	—	B
68510 Other lead and lead alloys, wrought.....	Lb.	NONF 8	Z	—	—	—	B
68520 Lead and lead alloy pipe fittings.....	Lb.	NONF 8	YZ	—	—	—	B
68520 Lead and lead alloy plumbing fittings.....	Lb.	NONF 8	Z	—	—	—	B
68520 Lead and lead alloy powder and burning bars.	Lb.	NONF 8	XYZ	—	—	25	B
68520 Lead foil (less than .006 of an inch in thickness), and lead collapsible tubes.	Lb.	NONF 8	YZ	—	—	—	B
68520 Paper backed lead foil.....	Lb.	TEXT 8	Z	—	—	—	B
68520 Other lead and lead alloys, wrought.....	Lb.	NONF 8	Z	—	—	—	B
68520 Lead semifabricated forms, n.e.c.....	Lb.	NONF 8	Z	—	—	—	B
68610 Zinc and zinc alloys, unwrought.....	Lb.	NONF 8	Z	—	—	—	B
68620 Zinc solder.....	Lb.	NONF 8	YZ	—	—	—	B
68620 Other zinc and zinc alloys in wrought forms.	Lb.	NONF 8	Z	—	—	—	B
68710 Tin shot.....	Lb.	NONF 8	YZ	—	—	—	B
68710 Other tin and tin alloys, unwrought.....	Lb.	NONF 8	YZ	—	—	—	B
68720 Tin foil (less than .006 of an inch in thickness), and paper backed tin foil.	Lb.	NONF 8	YZ	—	—	—	B
68720 Tin solder material.....	Lb.	NONF 8	YZ	—	—	—	B
68720 Other tin and tin alloys, wrought.....	Lb.	NONF 8	Z	—	—	—	B

¹ For export control purposes, "special types" of aluminum alloys are defined as those which have (1) an average copper content of 1 percent or more irrespective of other elements; (2) an average copper content of less than 1 percent and (a) a zinc content of 4 percent or more, (b) a silicon content of 3.5 percent or more, or (c) a magnesium content of 9.5 percent or more.

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68720-68941

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
68931 Magnesium unwrought containing 0.4 percent or more zirconium, or 1 percent or more of rare earth metals (cerium misch metal). (See § 399.2, Interpretations 10 and 12.)	Lb.	MINL 1	TVWXYZ	500	100	—	A
68931 Other magnesium, unwrought.....	Lb.	MINL 8	YZ	—	—	—	B
68932 Magnesium alloy powders containing 0.4 percent or more zirconium or 1 percent or more of rare earth metals (cerium misch metal).	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
68932 Other magnesium, wrought, containing 0.4 percent or more zirconium, or 1 percent or more of rare earth metals (cerium misch metal). (Specify by name.)	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
68932 Other magnesium, wrought.....	Lb.	MINL 8	YZ	—	—	—	B
68933 Beryllium metal and alloys, <i>excluding beryllium copper</i> , containing more than 50 percent beryllium. (See § 399.2, Interpretations 10 and 12.)	Lb.	MINL 1	TVWXYZ	500	500	—	A E-8
68933 Beryllium metal and alloys, <i>excluding beryllium copper</i> containing more than 50 percent beryllium, in crude form and scrap. (See § 399.2, Interpretations 10 and 12.) [Report beryllium copper in Export Control Commodity Nos. 68221-68226.]	Lb.	MINL 1	TVWXYZ	500	500	—	A
68933 Beryllium oxide ceramics in semi-fabricated forms, n.e.c.	Lb.	MINL 2	TVWXYZ	500	100	—	
68933 Beryllium metal powders and beryllium alloy metals powders, <i>excluding beryllium copper</i> , containing more than 50 percent beryllium by weight.	Lb.	MINL 1	TVWXYZ	500	500	—	A E-7
68933 Beryllium foil (less than .006 of an inch in thickness).	Lb.	MINL 1	TVWXYZ	500	500	—	A E-8
68933 Other beryllium (including waste and scrap but <i>excluding metallurgical residues</i>).	Lb.	MINL 8	XYZ	—	—	25	B
68941 Tungsten metal and alloys in crude forms (excluding scrap), <i>excluding pressed-sintered forms weighing less than 20 pounds; and excluding tungsten carbide</i> .	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
68941 Alloy steel scrap containing 1 percent or more tungsten by weight. (See § 399.2, Interpretations 10 and 12).	Lb.	STEE 2	TVWXYZ	500	100	—	
68941 Other tungsten, unwrought and waste and scrap, <i>excluding metallurgical residues</i> .	Lb.	MINL 8	YZ	—	—	—	B
68941 Tungsten and tungsten alloys in semifabricated forms, n.e.c., as follows: (a) tungsten wire, <i>excluding wire made from pressed-sintered tungsten</i> , and (b) other tungsten and tungsten alloys	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
in semifabricated forms, <i>excluding pressed-sintered forms weighing less than 20 pounds; and excluding pressed-sintered sheets less than 12 inches in width.</i>							
68941 Tungsten wire made from pressed-sintered tungsten.	Lb.	MINL 2	TVWXYZ	500	100	—	E-8
68941 Other tungsten, wrought, <i>excluding tungsten powder.</i>	Lb.	MINL 8	XYZ	—	—	25	B
68941 Tungsten powder, <i>excluding tungsten carbide powder.</i>	Lb.	MINL 8	XYZ	—	—	25	B
68942 Molybdenum, unwrought	Lb.	MINL 3	TVWXYZ	500	100	—	A E-7
68942 Molybdenum waste and scrap, <i>excluding metallurgical residues.</i>	Lb.	MINL 3	TVWXYZ	500	100	—	A E-7
68942 Molybdenum wire, bare, <i>excluding cleaned wire of a diameter not exceeding 500 microns and which, after having been fully annealed has an elongation factor not exceeding 5 percent for diameters up to 200 microns and not exceeding 10 percent for diameters from 200 to 500 microns.</i>	Lb.	MINL 3	TVWXYZ	500	100	—	A E-8
68942 Molybdenum foil and molybdenum alloy foil (less than .006 of an inch in thickness).	Lb.	MINL 3	TVWXYZ	500	100	—	A E-8
68942 Molybdenum, wrought, <i>excluding molybdenum powder.</i> (Specify by name.)	Lb.	MINL 3	TVWXYZ	500	100	—	A E-8
68942 Molybdenum and molybdenum alloy metal powders.	Lb.	MINL 3	TVWXYZ	500	100	—	A E-7
68943 Tantalum, unwrought and waste and scrap, <i>excluding metallurgical residues.</i> (See § 399.2 Interpretations 10 and 12.)	Lb.	MINL 1	TVWXYZ	500	100	—	A
68943 Tantalum bearing slag	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
68943 Tantalum and tantalum alloys in semifabricated forms, n.e.c. (Specify by name.)	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
68943 Tantalum metal powders	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
68943 Tantalum foil (less than .006 of an inch in thickness).	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
Base metals, n.e.c.:							
68950 Antimony and antimony alloys, wrought or unwrought, waste and scrap.	Lb.	MINL 8	Z	—	—	—	B
68950 Bismuth matte, slimes, residues, and base bullion.	Lb.	MINL 8	YZ	—	—	—	B
68950 Other bismuth (including waste and scrap but <i>excluding metallurgical residues.</i>)	Lb.	MINL 8	XYZ	—	—	25	B
68950 Cadmium (including waste and scrap but <i>excluding metallurgical residues.</i>)	Lb.	NONF 8	YZ	—	—	—	B
68950 Chromium (including waste and scrap but <i>excluding metallurgical residues.</i>)	Lb.	MINL 8	Z	—	—	—	B
68950 Cobalt, unwrought, and waste and scrap, <i>excluding metallurgical residues, special types only.</i> ¹	Lb.	MINL 6	TVWXYZ	500	100	—	
68950 Cobalt alloy metal in crude forms	Lb.	MINL 6	TVWXYZ	500	100	—	

¹ For export control purposes, "special types only" of cobalt alloy include alloys containing any of the following: (a) 50 percent or more cobalt; (b) 19 percent or more cobalt and 14 percent or more chromium and less than 1 percent carbon; or (c) 19 percent cobalt and 14 percent or more chromium and 3 percent or more molybdenum.

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
68950 Other cobalt unwrought, and waste and scrap.	Lb.	MINL 6	TVWXYZ	500	100	—	
68950 Cobalt metal powders.....	Lb.	MINL 6	TVWXYZ	500	100	—	E-7
68950 Cobalt alloy metal powders, special types only. ¹	Lb.	MINL 6	TVWXYZ	500	100	—	E-7
68950 Cobalt metal foil (less than .006 of an inch in thickness).	Lb.	MINL 6	TVWXYZ	500	100	—	E-8
68950 Cobalt alloy metal foil (less than .006 of an inch in thickness), special types only. ¹	Lb.	MINL 6	TVWXYZ	500	100	—	E-8
68950 Cobalt, wrought, special types only. ¹	Lb.	MINL 6	TVWXYZ	500	100	—	E-8
68950 Cobalt, wrought	Lb.	MINL 8	WXYZ	—	—	25	B
68950 Other cobalt wrought.....	Lb.	MINL 8	XYZ	—	—	25	B
68950 Columbium, unwrought and waste and scrap, excluding metallurgical residues.	Lb.	MINL 1	TVWXYZ	500	100	—	A
68950 Columbium bearing slag.....	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
68950 Columbium metal powders.....	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
68950 Other columbium, wrought.....	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
68950 Electrolytic manganese metal.....	Lb.	MINL 8	YZ	—	—	—	B
68950 Titanium, sponge and scrap.....	Lb.	MINL 1	TVWXYZ	500	100	—	A
68950 Other titanium unwrought, and waste, excluding metallurgical residues.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
68950 Other titanium, wrought.....	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
68950 Titanium metal powders.....	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
68950 Zirconium metal and alloys in crude form, and scrap, containing more than 50 percent zirconium in which the ratio of hafnium content to zirconium content is less than one part to 500 parts by weight. (See § 399.2, Interpretations 10 and 12.)	Lb.	MINL 1	TVWXYZ	500	100	—	A
68950 Other zirconium metal and alloys in crude form, and scrap, containing more than 50 percent zirconium. [Report quantity in pounds, net weight, and specify pounds or percent of hafnium content.] (See § 399.2, Interpretations 10 and 12.)	Lb.	MINL 2	TVWXYZ	500	100	—	
68950 Other zirconium, unwrought and waste and scrap, excluding metallurgical residues.	Lb.	MINL 8	YZ	—	—	—	B
68950 Magnesium-based alloys containing 0.4 percent or more zirconium (in which zirconium is the metal of chief value), in crude forms and scrap.	Lb.	MINL 1	TVWXYZ	500	100	—	A
68950 Magnesium-based alloy powders containing 0.4 percent or more zirconium, or 1 percent or more of rare earth metals (cerium misch metal).	Lb.	MINL 1	TVWXYZ	500	100	—	A E-7
68950 Magnesium-based alloys containing 0.4 percent or more zirconium (in which zirconium is the metal of chief value), in semifabricated forms, n.e.c.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8

¹ For export control purposes. "special types only" of cobalt alloy include alloys containing any of the following: (a) 50 percent or more cobalt; (b) 19 percent or more cobalt and 14 percent or more chromium and less than 1 percent carbon; or (c) 19 percent or more cobalt and 14 percent or more chromium and 3 percent or more molybdenum.

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Comprehensive Export Schedule

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
68950 Zirconium semifabricated forms, n.e.c., containing more than 50 percent zirconium in which the ratio of hafnium content to zirconium content is less than one part to 500 parts by weight.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
68950 Zirconium semifabricated forms, n.e.c., containing more than 50 percent zirconium. (Specify by name.) [Report quantity in pounds, net weight and specify pounds or percent of hafnium content.]	Lb.	MINL 2	TVWXYZ	500	500	—	E-8
68950 Zirconium metal powders, and zirconium alloy metal powders containing more than 50 percent zirconium in which the ratio of hafnium content to zirconium content is less than one part to 500 parts by weight.	Lb.	MINL 1	TVWXYZ	500	25	—	A E-7
68950 Zirconium alloy metal powders containing more than 50 percent zirconium by weight. (Specify percent of hafnium content.)	Lb.	MINL 2	TVWXYZ	500	25	—	E-7
68950 Zirconium foil (less than .006 of an inch in thickness) containing more than 50 percent zirconium in which the ratio of hafnium content to zirconium content is less than one part to 500 parts by weight. (Specify zirconium and hafnium content.)	Lb.	MINL 1	TVWXYZ	500	—	—	A E-8
68950 Other zirconium, wrought.....	Lb.	MINL 8	YZ	—	—	—	B
68950 Thermo bimetal, thermometal, and thermostatic metal, n.e.c.	Lb.	NONF 4	VWXYZ	—	100	—	E-8
68950 Other base metals, n.e.c.....	Lb.	MINL 8	YZ	—	—	—	B
68950 Gallium metal powders.....	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
68950 Gallium metal, alloys, and amalgams, excluding electronic grades containing less than 1 percent gallium.	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
68950 Germanium metal having a resistivity of 50 ohms centimeter or greater.	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
68950 Other Germanium metal.....	Lb.	MINL 8	WXYZ	—	—	25	B
68950 Hafnium metal, and alloys containing more than 15 percent hafnium by weight. (Specify hafnium content.)	Lb.	MINL 1	TVWXYZ	500	—	—	A E-7
68950 Monocrystalline indium in any form, excluding electronic grades containing less than 1 percent of indium.	Lb.	MINL 1	TVWXYZ	500	—	—	A E-7
68950 Rhenium metal powders.....	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
68950 Antimony and antimony alloys.....	Lb.	MINL 8	Z	—	—	—	B
68950 Cadmium and cadmium alloys.....	Lb.	MINL 8	XYZ	—	—	25	B
68950 Manganese and manganese alloys.....	Lb.	MINL 8	Z	—	—	—	B
68950 Rhenium metals and alloys.....	Lb.	MINL 2	TVWXYZ	500	—	—	E-7
68950 Vanadium metal	Lb.	MINL 8	XYZ	—	—	25	B

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68950-69213

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
68950 Dendritic forms of any semiconductor material, or combinations thereof, suitable for use in diodes or transistors. (See § 399.2, Interpretation 23.)	Lb.	MINL 1	TVWXYZ	500	—	—	A E-8
MANUFACTURES OF METALS, N.E.C.							
Finished structural parts and structures:							
69110 Perforated sheets, alloy steel, special types Class 1. ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
69110 Nickel-bearing stainless steel perforated sheets, as follows: (a) AISI type 309-S-Cb-Ta, or (b) containing a total of 35 percent or more of alloying elements. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
69110 Other perforated steel sheets.....	Lb.	STEE 8	WXYZ	—	—	25	B
69110 Other perforated iron sheets.....	Lb.	STEE 8	XYZ	—	—	25	B
69110 Bridges and structural parts, iron and steel.....	.....	STEE 8	WXYZ	—	—	25	B
69110 Fence posts, gates, and fittings, steel.....	Lb.	STEE 8	YZ	—	—	—	B
69110 Sash, sections, and frames, door and window, iron and steel.	Lb.	STEE 8	Z	—	—	—	B
69110 Other finished structures and structural parts, n.e.c., iron and steel.	.....³	STEE 8	YZ	—	—	—	B
69120 Bridges and structural parts, aluminum....	.....	NONF 8	WXYZ	—	—	25	B
69120 Sash, sections, and frames, door and window, aluminum.	Lb.	NONF 8	Z	—	—	—	B
69120 Other finished structures and structural parts, n.e.c., aluminum.	.....⁴	NONF 8	YZ	—	—	—	B
69130 Finished structural parts of zinc.....	Lb.	NONF 8	YZ	—	—	—	B
Metal containers for storage and transport, including bins and vats. [Report containers with capacity of less than 80 gallons in Export Control Commodity Nos. 69891, 69892, 69899, and report thermal type in Export Control Commodity Nos. 69221-69222.]							
69211 Steel storage tanks, lined.....	Lb.	STEE 8	WXYZ	—	—	25	B
69211 Gas shipping containers, lined or unlined, iron and steel, unfilled.	Lb.	STEE 8	WXYZ	—	—	25	B
69211 Other containers for storage and manufacturing use and septic tanks, lined or unlined, iron and steel.	Lb.	STEE 8	XYZ	—	—	25	B
69212 Containers for storage and manufacturing use and septic tanks lined or unlined, copper.	Lb.	STEE 8	WXYZ	—	—	25	B

¹ Specify recognized designation (AISI, SAE, NE number, etc), or percentage of each alloying element.

² For definition of "special types" of alloy steel, see § 399.2, Interpretations 8 and 9.

³ Report fabricated structural iron and steel in "short ton"; prefabricated and portable buildings in "number"; fabricated steel plates, architectural and ornamental work, and other sheet metal construction materials, n.e.c., in "pound."

⁴ Report prefabricated and portable buildings in "number," architectural and ornamental work and sheet metal construction materials, n.e.c., in "pound."

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Comprehensive Export Schedule

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69213 Containers for storage and manufacturing use, and septic tanks lined or unlined, aluminum.	Lb.	STEE 8	WXYZ	—	—	25	B
69221 Liquefied gas containers, iron and steel, jacketed only, filled or unfilled, as follows: (a) designed to maintain temperatures below minus 130° C. (minus 202° F.), (b) of 250 to 500 gallon capacity, designed for the handling of liquid fluorine, or (c) of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period.</i> ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
69221 Other casks, drums, barrels, cans, and other shipping containers of iron or steel filled or unfilled, used for transport of goods.	Lb.	STEE 8	XYZ	—	—	25	B
69221 Liquefied gas containers, iron and steel, jacketed only, filled or unfilled, of 500 gallon capacity or over. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
69222 Liquefied gas containers, aluminum, jacketed only, filled or unfilled, as follows: (a) designed to maintain temperatures below minus 130° C. (minus 202° F.), (b) of 250 to 500 gallon capacity, designed for the handling of liquid fluorine, or (c) of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period.</i> ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
69222 Liquefied gas containers, aluminum, jacketed only, filled or unfilled, of 500 gallon capacity or over. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
69222 Other casks, drums, barrels, cans, and other shipping containers, aluminum, filled or unfilled, used for transport of goods.	Lb.	STEE 8	XYZ	—	—	25	B
69231 Filled or unfilled liquefied gas cylinders of iron or steel, jacketed only, as follows: (a) designed to maintain temperatures below minus 130° C. (minus 202° F.), (b) of 250 to 500 gallon capacity, designed for the handling of liquid fluorine, or (c) of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period.</i> ^{1, 2}	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
69231 Filled or unfilled liquefied gas cylinders, jacketed only, of 500 gallon capacity or over; of iron or steel. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8

¹ A jacketed container is a thermos type container that has more than one wall and is insulated by a vacuum or by insulation material.

² Average evaporation loss is to be calculated on a percentage of the total liquid capacity of the container under ambient temperature conditions of plus 75° F. (plus 24° C.) or higher and without exposure to direct sunlight.

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69232 Filled or unfilled liquefied gas cylinders of aluminum, jacketed only, as follows: (a) designed to maintain temperatures below minus 130° C. (minus 202° F.), (b) of 250 to 500 gallon capacity designed for the handling of liquid fluorine, or (c) of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period. ¹	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
69232 Unfilled liquefied gas cylinders of aluminum, jacketed only, of 500 gallon capacity or over.	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
69232 Other compressed gas cylinders of aluminum	Lb.	STEE 8	WXYZ	—	—	25	B
69232 Cryogenic equipment, the following: Equipment designed for maintaining an ambient temperature below -202° F. (-130° C.), designed for use in marine, airborne, or space operations, or ruggedized for mobile ground use, or designed to maintain operating temperatures for electrical, magnetic, or electronic equipment or components.	.....	FINP 7	TVWXYZ	500	—	—	A
69232 Cryogenic equipment components, n.e.c., the following: Electrical, magnetic, or electronic equipment or components, and electrical conductors specially designed for operation continuously or discontinuously at ambient temperatures below -202° F. (-130° C.), and specially designed accessories, sub-assemblies, parts, or components.	.....	FINP 7	TVWXYZ	500	—	—	A
69299 Shipping containers which are instruments of international trade, filled or unfilled, of all metals.	Lb.	STEE 8	Z	—	—	—	B
Wire products excluding insulated electric:							
69311 Wire cable rope, strand, and cord made of stainless steel, suitable for aircraft.	Lb.	STEE 8	WXYZ	—	—	25	B
69311 Wire cable, rope, plaited bands, slings, and similar articles, stainless steel.	Lb.	STEE 8	XYZ	—	—	25	B
69311 Other wire cable, rope, plaited bands, slings, and similar articles, iron and steel.	Lb.	STEE 8	Z	—	—	—	B
69312 Other wire cable, rope, plaited bands, slings, and similar articles, copper, except insulated electric; of iron or steel.	Lb.	STEE 8	WXYZ	—	—	25	B
69312 Wire cable, rope, strand, and cord, phosphor bronze.	Lb.	NONF 2	TVWXYZ	500	100	—	E-8
69313 Wire cable, rope, plaited bands, slings, and similar articles, aluminum.	Lb.	NONF 8	XYZ	—	—	25	B
69320 Barbed wire, iron or steel.....	Lb.	STEE 8	YZ	—	—	—	B
69320 Other wire of iron or steel, of types used for fencing.	Lb.	STEE 8	XYZ	—	—	25	B

¹ A jacketed container is a thermos type container that has more than one wall and is insulated by a vacuum or by insulation material.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69331 Wire cloth and wire reinforcing fabric, iron or steel.	Sq. ft.	STEE 8	YZ	—	—	—	B
69331 Other woven wire products, iron or steel..	Sq. ft. ¹	STEE 8	Z	—	—	—	B
69332 Insect screen cloth, copper.....	Sq. ft.	NONF 8	YZ	—	—	—	B
69332 Other woven wire products, copper.....	Sq. ft. ¹	FINP 8	Z	—	—	—	B
69333 Screen cloth of wire of aluminum.....	Sq. ft.	NONF 8	Z	—	—	—	B
69333 Other woven wire products, aluminum....	Sq. ft. ¹	FINP 8	Z	—	—	—	B
69340 Expanded metal of iron, steel, copper or aluminum.	Lb.	FINP 8	YZ	—	—	—	B
69411 Nails, staples, and spikes, iron or steel....	Lb.	STEE 8	YZ	—	—	—	B
69411 Tacks, including thumbtacks, and similar articles of iron or steel.	Lb.	FINP 8	Z	—	—	—	B
69412 Nails, tacks, staples, spikes, and similar articles of copper, <i>excluding boat spikes; wire nails, staples, or spikes.</i>	Lb.	FINP 8	Z	—	—	—	B
69412 Boat spikes of copper; and wire nails, staples, and spikes of copper.	Lb.	FINP 8	XYZ	—	—	25	B
69421 Bolts, nuts, screws, rivets, washers, and similar articles of iron or steel, <i>excluding wood screws.</i>	Lb.	STEE 8	YZ	—	—	—	B
69421 Wood screws, iron or steel.....	Lb.	STEE 8	Z	—	—	—	B
69422 Bolts, nuts, screws, rivets, washers, and similar articles of copper.	Lb.	FINP 8	XYZ	—	—	25	B
69510 Hand tools of a kind mainly used in forestry or agriculture, i.e., axes, adzes, hatchets, hoes, rakes, forks, shovels, etc.	.....	FINP 8	YZ	—	—	—	B
69521 Circular saw blades.....	No.	FINP 8	XYZ	—	—	25	B
69521 Steel band pit, drag, and mill saw blades, wood working.	No.	FINP 8	XYZ	—	—	25	B
69521 Hacksaw blades, hand or power.....	No.	TOOL 8	XYZ	—	—	25	B
69521 Power saw blades, metal working, n.e.c., <i>excluding hack-saw blades.</i>	No.	TOOL 8	WXYZ	—	—	25	B
69521 Cross cut, hand, back, and other saws, n.e.c., and specially fabricated parts and accessories.	.....	FINP 8	YZ	—	—	—	B
69522 Files, rasps, metal cutting shears, tinsmens' snips, wrenches, pliers, pincers, and other similar hand tools, metal cutting shears and mechanics' hand service tools, etc.	.....²	FINP 8	XYZ	—	—	25	B
69523 Edge tools, n.e.c.....	.....	FINP 8	YZ	—	—	—	B
69523 Mechanics' hand service tools, n.e.c.; and hand tools, n.e.c.	.....	FINP 8	XYZ	—	—	25	B
69523 Jacks, hand operated, general purpose, mechanical and hydraulic, and specially fabricated parts and accessories.	.....	FINP 8	XYZ	—	—	25	B

¹ Report fencing and fence gates of wire in "pounds."
² Report shears, snips, and wrenches in "No.;" and files and rasps in "dozen."

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69524-69526

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69524 Hand operated screw plates, bolt dies, taps, tap wrenches, and pipe-threading tools, including dies and die stock, and specially fabricated parts and accessories, n.e.c.	.....	FINP 8	XYZ	—	—	25	B
69524 Hand operated cutting tools, n.e.c., and hand operated devices, n.e.c., and specially fabricated parts and accessories, n.e.c.	.....	FINP 8	XYZ	—	—	25	B
69524 Drill bits, core bits, and reamers, containing diamonds.	No.	CONS 8	WXYZ	—	—	25	B
69524 Rotary rock drill bits, including coring bits, having cones or sections which rotate freely and independently of the rotation of the body of the bit.	No.	CONS 2	TVWXYZ	500	100	—	E-12
69524 Other rotary drill bits, core bits, and reamers, n.e.c.	No.	CONS 8	XYZ	—	—	25	B
69524 Parts, n.e.c., for rotary rock drill bits, including coring bits, having cones or sections which rotate freely and independently of the rotation of the body of the bit.	.....	CONS 2	TVWXYZ	500	500	—	E-12
69524 Parts, n.e.c., for drill bits, core bits, and reamers, containing diamonds.	.....	CONS 8	WXYZ	—	—	25	B
69524 Other parts, n.e.c., for rotary drill bits, core bits, and reamers, n.e.c.	.....	CONS 8	XYZ	—	—	25	B
69524 Broaching tools, counterbores and countersinks, hobs, gear shaping and gear shaping cutters, and reamers.	No.	FINP 8	XYZ	—	—	25	B
69524 Single point, threading tools, twist drills and metal cutting tools, n.e.c.	No.	FINP 8	XYZ	—	—	25	B
69524 Milling cutters and end mills.....	No.	FINP 8	XYZ	—	—	25	B
69524 Broaching tools specially designed for the production of arms, munitions, and implements of war.	No.	TOOL 1	TVWXYZ	500	—	—	A
69524 Broaching tools specially designed for production of jet engine blades and engine discs.	No.	TOOL 2	TVWXYZ	500	—	—	
69524 Gun barrel rifling broaches.....	No.	TOOL 1	TVWXYZ	500	—	—	A
69524 Other surface-broaching tools.....	No.	TOOL 2	TVWXYZ	500	500	—	
69524 Hollow deep-hole drills.....	No.	TOOL 2	TVWXYZ	500	—	—	
69524 Small arms deep-hole drills.....	No.	TOOL 1	TVWXYZ	500	500	—	A
69524 Diamond dressers and diamond boring and turning tools.	No.	TOOL 8	WXYZ	—	—	25	B
69524 Tools incorporating industrial diamonds, n.e.c.	No.	TOOL 8	XYZ	—	—	25	B
69524 Diamond dies for metalworking machines..	No.	TOOL 8	WXYZ	—	—	25	B
69524 Metal-cutting tools not incorporating industrial diamonds.	.....	TOOL 8	WXYZ	—	—	25	B
69524 Cutting tools, n.e.c.....	No.	TOOL 8	XYZ	—	—	25	B
69525 Cutting knives and blades for machines....	No.	FINP 8	XYZ	—	—	25	B
69526 Tool tips, etc., unmounted, of sintered metal carbides.	.....	TOOL 8	XYZ	—	—	25	B

(Next page is CCL-78A)

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69603 Razors non-electric, and razor blades; and parts of razors, including blades and heads for electric razors. [Report electric razors in Export Control Commodity No. 72504.]	.....¹	FINP 8	Z	—	—	—	B
69609 Table flatware and cutlery and metal parts; and cutlery n.e.c., and parts; <i>except of precious metal or plated with precious metal</i> . [Report precious metal or plated with precious metal under Export Control Commodity No. 98715; dental, medical, surgical, and veterinary scissors and shears in Export Control Commodity No. 86171; agricultural or forestry scissors or shears in Export Control Commodity No. 69510.]	.....	FINP 8	Z	—	—	—	B
69710 Domestic, including hotel, restaurant and similar type, stoves, boilers, cookers, ovens, and <i>ice heaters, excluding electric</i> ; and parts, n.e.c.	.....²	FINP 8	Z	—	—	—	B
69721 Domestic utensils and hollow ware of iron or steel.	Lb.	FINP 8	Z	—	—	—	B
69722 Plumbers brass goods and builders sanitary ware and fittings. [Report plumbing faucets, traps, taps, cocks, heating valves, and similar articles in Export Control Commodity No. 71992].	Lb.	FINP 8	XYZ	—	—	25	B
69722 Domestic, including commercial and hospital, utensils and hollow ware of copper.	Lb.	FINP 8	Z	—	—	—	B
69723 Domestic, including commercial and hospital, utensils and hollow ware of aluminum.	Lb.	FINP 8	Z	—	—	—	B
69791 Pot scouring, polishing, and soap pads, iron or steel.	Lb.	FINP 8	Z	—	—	—	B
69791 Steel Wool.....	Lb.	FINP 8	YZ	—	—	—	B
69794 Picture frames, mirrors, and indoor ornaments of precious metals.	.....	FINP 8	XYZ	—	—	25	B
69794 Picture frames, mirrors and indoor ornaments of other base metals, n.e.c.	.....	FINP 8	YZ	—	—	—	B
69811 Locks, padlocks, and keys of iron and steel..	.....³	FINP 8	Z	—	—	—	B

(Next page is CCL-78B)

¹ Report razor blades in "thousand," and safety razors in "dozen."
² Report heating and cooking stoves and ranges in "number."
³ Report padlocks, doorlocks and lock sets in "number."

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69811-69885

Commodity Control List

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69811 Keys of metals other than iron and steel...	.....	FINP 8	YZ	—	—	—	B
69812 Car and marine hardware, n.e.c., iron and steel.	.....	FINP 8	XYZ	—	—	25	B
69812 Transportation hardware, <i>excluding locks</i> , other than iron and steel, n.e.c., and specially fabricated parts and accessories n.e.c., other than iron and steel.	.....	FINP 8	YZ	—	—	—	B
69812 Furniture hardware n.e.c., and specially fabricated parts and accessories, stainless steel only.	.....	FINP 8	YZ	—	—	—	B
69812 Builders hardware n.e.c., and specially fabricated parts and accessories, n.e.c., of metals other than iron or steel.	.....	FINP 8	YZ	—	—	—	B
69812 Other hardware, n.e.c., of base metal.....	.....	FINP 8	YZ	—	—	—	B
69820 Safes, strong-rooms and fittings, and strong boxes of base metals.	.....	FINP 8	Z	—	—	—	B
69830 Sprocket and other power transmission chains and parts, iron or steel.	Lb.	FINP 8	XYZ	—	—	25	B
69830 Chains, iron and steel n.e.c., and specially fabricated parts and accessories n.e.c.	Lb.	FINP 8	YZ	—	—	—	B
69840 Anchors, grapnels, and parts of iron and steel.	Lb.	FINP 8	XYZ	—	—	25	B
69851 Needles for hand sewing, knitting, netting, etc., iron or steel.	Thou.	FINP 8	YZ	—	—	—	B
69854 Pins, hairpins, and curling grips of iron and steel and similar articles.	Lb.	FINP 8	Z	—	—	—	B
69861 Wire springs, springs, and leaves for springs, iron or steel.	Lb.	TRAN 8	WXYZ	—	—	25	B
69862 Springs and leaves for springs, copper.....	Lb.	TRAN 8	WXYZ	—	—	25	B
69881 Sprocket and other power transmission chains, and other chains, and parts, copper or copper-alloy.	Lb.	FINP 8	XYZ	—	—	25	B
69882 Flexible tubing and piping, <i>excluding electrical</i> .	Lb.	FINP 8	XYZ	—	—	25	B
69885 Crowns, and home canning and commercial closures, of base metal.	.....	FINP 8	Z	—	—	—	B

(Next page is CCL-78C)

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69886 Name plates, sign plates, etc., of base metal. Welding and soldering rods, wire, tubes, plates, electrodes, and similar products of base metal or of metal carbides, coated or cored with flux material:	.....	FINP 8	Z	—	—	—	B
69887 Welding rods and wires, non-electric, iron and steel, special types Class 1. ¹ ²	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
69887 Welding rods and wires, non-electric, iron and steel, as follows: (a) containing 6 percent or more cobalt, (b) AISI type 309-S-Cb-Ta, or (c) containing a total of 35 percent or more of alloy- ing elements. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
69887 Zirconium and zirconium alloy welding rods and wires containing more than 50 percent zir- conium in which the ratio of hafnium content to zirconium content is less than one part to five hundred parts by weight.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
69887 Solder material	Lb.	NONF 8	YZ	—	—	—	B
69887 Other welding and soldering rods and wire (including tubes and plates for welding or solder- ing.).	Lb.	STEE 8	XYZ	—	—	25	B
69887 Welding rods and wires, electric, iron and steel, special types only. ¹ ²	Lb.	STEE 3	TVWXYZ	500	100	—	A E-8
69887 Welding rods and wires, electric, as fol- lows: (a) containing 6 percent or more cobalt, (b) AISI type 309-S-Cb-Ta, or (c) containing a total of 35 percent or more of alloying elements. ¹	Lb.	STEE 4	TVWXYZ	500	100	—	E-8
69887 Cobalt metal welding rods, wires, and elec- trodes (including brazing rods).	Lb.	MINL 6	TVWXYZ	500	100	—	E-8
69887 Cobalt alloy welding rods, wires, and elec- trodes (including brazing rods), special types only. ³	Lb.	MINL 6	TVWXYZ	500	100	—	E-8
69887 Other cobalt alloy welding rods, wires and electrodes (including brazing rods).	Lb.	MINL 8	WXYZ	—	—	25	B

(Next page is CCL-78D)

¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.
² For definition of "special types" of alloy steel, see § 399.2, Interpretations 8 and 9.
³ For export control purposes, "special types" of cobalt alloy include alloys containing any of the following: (a) 50 percent or more cobalt; or (b) 19 percent or more cobalt and 14 percent or more chromium and less than 1 percent carbon; or (c) 19 percent or more cobalt and 14 percent or more chromium and 3 percent or more molybdenum.

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69887-69891

Commodity Control List

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69887 Columbium and columbium alloy welding rods, wires, and electrodes (including brazing rods).	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
69887 Magnesium alloy welding rods, wires, and electrodes (including brazing rods) containing 0.4 percent or more zirconium, or 1 percent or more of rare earth metals (cerium misch metal). (Specify by name.)	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
69887 Molybdenum and molybdenum alloy welding rods, wires, and electrodes (including brazing rods).	Lb.	MINL 3	TVWXYZ	500	100	—	A E-8
69887 Nickel alloy welding rods, wires, and electrodes (including brazing rods) containing 32 percent or more nickel, <i>excluding those of nickel-copper alloys containing not more than 6 percent of other alloying elements.</i> (Specify by name with complete metal analysis.)	Lb.	NONF 8	TVWXYZ	500	100	—	E-8
69887 Nickel and nickel alloy welding rods, wires, and electrodes (including brazing rods). ¹	Lb.	NONF 8	WXYZ	—	—	25	B
69887 Tantalum and tantalum alloy welding rods, wires, and electrodes (including brazing rods).	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
69887 Zirconium and zirconium alloy welding rods and wires containing more than 50 percent zirconium in which the ratio of hafnium content to zirconium content is less than one part to five hundred parts by weight.	Lb.	MINL 1	TVWXYZ	500	100	—	A E-8
69887 Other welding electrodes, arc, <i>except carbon.</i>	Lb.	MINL 8	XYZ	—	—	25	B
Articles of iron or steel, including pole-line and transmission hardware, <i>excluding castings and forgings, n.e.c.:</i>							
69891 Cotton bale ties and buckles.....	.....	STEE 8	YZ	—	—	—	B
69891 Wire products, n.e.c.....	.....	STEE 8	XYZ	—	—	25	B
69891 Electrical steel punchings, grain-oriented, with a thickness of 0.004 inch (0.1 mm.) or less. (Specify thickness in decimal parts of an inch or in millimeters.)	STEE 3	TVWXYZ	500	100	—	A E-8

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¹ Specify recognized designation (AISI, SAE, NE number, etc.), or percentage of each alloying element.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69891 Electrical steel punchings, as follows: (a) with a core loss of 0.45 watts per pound at 13,000 gauss and 50 cycles per second (0.62 watts per pound at 15,000 gauss and 50 cycles per second) or less regardless of thickness, or (b) with a thickness of 0.005 inch up to and including 0.008 inch (0.2 mm.) regardless of core loss characteristics or whether or not grain oriented. (Specify thickness in decimal parts of an inch or in millimeters, and specify core loss in watts per pound at flux density of either 13,000 or 15,000 gauss and at 50 cycles per second.)	.....	STEE 4	TVWXYZ	500	100	—	E-8
69891 Other electrical steel punchings.....	.....	STEE 8	WXYZ	—	—	25	B
69891 Pole line and transmission hardware.....	.....	ELME 8	XYZ	—	—	25	B
69891 Aircraft landing mats.....	Lb.	STEE 6	TVWXYZ	500	100	—	E-2
69891 Body armor; cutting electrodes, ceramic-covered, for underwater operations; Dempster Dumpster® containers (for use with Dempster Dumpster® hoisting units); gear blanks; nozzles, industrial type; oil seals, steel encased (general purpose); and submarine cable protectors.	.....	STEE 8	XYZ	—	—	25	B
69891 Other articles of iron or steel, n.e.c.....	.....	STEE 8	YZ	—	—	—	B
69892 Copper castings and forgings.....	Lb.	NONF 8	WXYZ	—	—	25	B
69892 Copper and copper-base alloy perforated, plates and perforated sheets.	.....	NONF 8	WXYZ	—	—	25	B
69892 Other articles of copper, n.e.c.....	.....	NONF 8	XYZ	—	—	25	B
Articles of non-ferrous base metals, n.e.c.:							
69899 Aluminum castings and forgings, n.e.c.....	Lb.	NONF 8	YZ	—	—	—	B
69899 Thermoelectric materials with a maximum product of the figure of merit (Z) and the temperature (T in °K) in excess of 0.75.	.....	ELME 5	TVWXYZ	500	—	—	A
69899 Metal cans, made or cut from nonferrous base metals.	.....	TNPL 8	XYZ	—	—	25	B
69899 Articles of nonferrous base metals, n.e.c., the following only: Lead collapsible tubes; tin collapsible tubes; tenaplate.	.....	NONF 8	YZ	—	—	—	B
69899 Imitation gold leaf (less than .006 of an inch in thickness).	.....	NONF 8	Z	—	—	—	B
69899 Other nonferrous foil and leaf n.e.c., except precious metals.	NONF 8	XYZ	—	—	25	B

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69899-71120

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
69899 Wire mesh, all types, including electro-formed, containing 95 percent or more nickel, with 60 or more wires per linear centimeter or the equivalent thereof.	Sq. ft.	FINP 4	TVWXYZ	500	100	—	E-8
69899 Materials specially designed and manufactured for use as absorbers of electromagnetic waves having frequencies in excess of 200 megacycles per second.	.....	ELME 5	TVWXYZ	500	—	—	A
69899 Other articles of nonferrous base metals, n.e.c.	.....	NONF 8	XYZ	—	—	25	B
SECTION 7—MACHINERY AND TRANSPORT EQUIPMENT							
MACHINERY, OTHER THAN ELECTRIC							
Steam generating power boilers:							
71110 Water tube boilers, marine type, designed to have either of the following characteristics: (a) heat release rate (at maximum rating) equal to or in excess of 180,000 B.T.U. per cu. ft. of furnace volume, or (b) ratio of steam generated in pounds per hour (at maximum rating) to the dry weight of the boiler in pounds equal to or in excess of 0.83, and specially designed parts and accessories. (Specify characteristics.) ¹	.....	CONS 1	TVWXYZ	500	—	—	A
71110 Other water tube boilers, marine type, designed to operate at temperatures above 850 degrees F. and specially designed parts and accessories. (Specify designed operating temperature.)	.....²	CONS 2	TVWXYZ	500	—	—	
71110 Other steam generating fire tube and water tube power boilers, n.e.c., and parts and accessories, n.e.c.	.....²	CONS 8	XYZ	—	—	25	B
Steam generating power boiler accessories:							
71120 Boiler superheaters, feedwater heaters, and economizers for marine steam boilers designed to have either of the following characteristics: (a) heat release rate (at maximum rating) equal to or in excess of 180,000 B.T.U. per hour per cu. ft. of furnace volume, or (b) ratio of steam generated in pounds per hour (at maximum rating) to the dry weight of the boiler in pounds equal to or in excess of 0.83, and specially designed parts and accessories.	.....	CONS 1	TVWXYZ	500	500	—	A
71120 Boiler superheaters, feedwater heaters, and economizers, for other marine steam boilers designed to operate at temperatures above 850° F., and specially designed parts and accessories.	.....	CONS 2	TVWXYZ	500	500	—	

¹ For export control purposes "furnace volume" is the volume of the combustion chamber formed by refractory or tubular walls and floor, i.e., the inside dimension of the chamber; and "dry weight of the boiler" is the total weight of the boiler (excluding the air heaters) less the water required for steaming.

² Report complete units of fire tube and water tube power boilers in "No."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71120 Other superheaters, feedwater heaters, and economizers, n.e.c., for other boilers, and parts and accessories, n.e.c.	.....	CONS 8	XYZ	—	—	25	B
71120 Heat exchangers made of aluminum, copper, nickel, or alloys containing more than 60 percent nickel, or combinations of these metals as clad tubes, designed to operate at sub-atmospheric pressure, with a leak rate of less than 10 ⁻⁴ atmospheres per hour under a pressure differential of 1 atmosphere. (Specify type of metal and operation specifications) and specially designed parts and accessories, n.e.c.	.....¹	GIEQ 1	TVWXYZ	500	100	—	A
71120 Other heat exchangers specially designed for nuclear reactors, and specially designed parts and accessories, n.e.c.	.....¹	CONS 1	TVWXYZ	500	—	—	A
71120 Heat exchangers designed to operate at pressures of 300 psi and above and with all flow-contact surfaces made of any of the following materials: aluminum, nickel, titanium, zirconium, or alloys containing 60 percent or more nickel, either separately or combined, and specially designed parts and accessories, n.e.c. (Specify pressure and type of metal.)	.....¹	GIEQ 2	TVWXYZ	500	100	—	
71120 Other heat exchangers, n.e.c., and specially fabricated parts and accessories. Steam engines and turbines, and parts (excluding boiler or boiler parts):	.....¹	GIEQ 8	XYZ	—	—	25	B
71130 Steam turbines designed for turbo generators 200,000 kilowatts and over, and specially designed parts and accessories, n.e.c.	.....	CONS 2	VWXYZ	—	—	—	
71130 Steam turbines designed for turbo generators 60,000 kilowatts up to but not including 200,000 kilowatts, and specially designed parts and accessories, n.e.c.	.....	CONS 8	XYZ	—	—	25	B
71130 Other steam turbines and engines, n.e.c., and parts and accessories, n.e.c.	.....	CONS 8	XYZ	—	—	25	B
71141 Internal combustion aircraft engines, new or used, and parts and accessories, n.e.c. (Specify type and horsepower.)	.....²	TRAN 2	TVWXYZ	500	500	—	E-2
71141 Parts, n.e.c., specially fabricated for internal combustion aircraft engines and wholly made of fluorocarbons (polymers and copolymers). (See § 399.2, Interpretation 22.) Jet and gas turbines for aircraft and missiles, and parts: ³	.....	TRAN 1	TVWXYZ	500	25	—	A
71142 Jet turbines, except prop jets, for aircraft, new or used 9,000 pounds thrust and over, and parts and accessories, n.e.c. (Specify type and pounds thrust.)	No.	TRAN 1	TVWXYZ	500	—	—	A

¹ Report heat exchangers in "number."² Report aircraft engines in "number."³ See paragraph 370.5(a) for commodities which require export authorization from the Department of State.

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71142-71181

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71142 Jet turbines, <i>except prop jets</i> , for aircraft, new or used under 9,000 pounds thrust, and parts and accessories, n.e.c. (Specify type and pounds thrust.)	No.	TRAN 2	TVWXYZ	500	—	—	E-2
71142 Gas turbines, including prop jets, for aircraft, new or used, and parts and accessories, n.e.c. (Specify type, shaft horsepower, and residual pounds thrust.)	No.	TRAN 2	TVWXYZ	500	—	—	E-2
71142 Parts, n.e.c., specially fabricated for jet and gas turbines for aircraft and wholly made of fluorocarbons (polymers and copolymers.) (See § 399.2, Interpretation 22.)	.....	TRAN 1	TVWXYZ	500	25	—	A
71150 Diesel and semi-diesel engines, 50 brake horsepower and over, when the non-magnetic content exceeds 50% of total weight, and parts and accessories, n.e.c. (Specify brake horsepower at rated speed, and r.p.m.)	No.	TRAN 1	TVWXYZ	500	—	—	A
71150 Diesel and semi-diesel marine engines, 1,500 brake horsepower and over, with rotary speeds of 700 r.p.m. and over, designed for use on submarines, and parts and accessories, n.e.c. (Specify brake horsepower at rated speed, and r.p.m.)	No.	TRAN 1	TVWXYZ	500	—	—	A
71150 Diesel and semi-diesel engines, 1,500 brake horsepower and over, with rotary speeds of 700 r.p.m. and over, and parts and accessories, n.e.c. (Specify brake horsepower at rated speed, and r.p.m.)	No.	TRAN 2	TVWXYZ	500	—	—	
71150 Other diesel and semi-diesel engines <i>except aircraft</i> , n.e.c., and parts and accessories, n.e.c. (Specify brake horsepower at rated speed, and r.p.m.)	No.	TRAN 8	XYZ	—	—	25	B
71150 Gasoline engines, automotive.....	No.	TRAN 8	XYZ	—	—	25	B
71150 Outboard motors, 15 horsepower and under, and parts and accessories, n.e.c.	No.	TRAN 8	Z	—	—	—	B
71150 Other internal combustion engines, n.e.c., and parts and accessories, n.e.c. (excluding aircraft.)	No.	TRAN 8	XYZ	—	—	25	B
71160 Gas turbines, other than for aircraft, and parts.	.....	TRAN 8	XYZ	—	—	25	B
71170 Nuclear reactors and parts and accessories, n.e.c., specially designed therefor (specify by name). ¹	.....	ELME 1	TVWXYZ	500	—	—	A
Engines and turbines, n.e.c., including wind engines, hot air engines, water wheels, water turbines, and parts:							
71181 Windmills and parts.....	.....	CONS 8	YZ	—	—	—	B

¹ Export authorization from the Atomic Energy Commission is required for nuclear reactors (see paragraph 370.5(d)), even when such export is to be made in multiple shipments, or when some of the parts are to be supplied by foreign sources.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special revisions List
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71181 Other engines and turbines, n.e.c., including water wheels and water turbines, n.e.c., and parts.	CONS 8	XYZ	—	—	25	B
71210 Agricultural machines for preparing, planting and cultivating the soil. (Specify type of machine.)	No.	AGSU 8	YZ	—	—	—	B
71210 Parts and attachments for agricultural machines for preparing, planting and cultivating the soil.	.....	AGSU 8	YZ	—	—	—	B
Agricultural machines and appliances for harvesting, cutting, threshing and sorting, and parts:							
71220 Mechanical cotton pickers; beet harvesters, 4-row and larger; and field hay wafering or pelletizing machines, and any machines designed for similar operations.	No.	AGSU 8	WYZ	—	—	—	B
71220 Other agricultural machines and appliances for harvesting, cutting, threshing, and sorting.	No.	AGSU 8	Z	—	—	—	B
71220 Parts and attachments specially fabricated for mechanical cotton pickers.	.....	AGSU 8	WYZ	—	—	—	B
71220 Parts and attachments specially fabricated for other agricultural machines and appliances for harvesting, cutting, threshing, and sorting.	.....	AGSU 8	YZ	—	—	—	B
71230 Cream separators, capacity not over 1,500 pounds milk per hour; and parts specially fabricated therefor.	.....	AGSU 8	YZ	—	—	—	B
71230 Milking machines and other farm dairy machines, n.e.c., and parts.	.....	AGSU 8	YZ	—	—	—	B
71230 Industrial dairy machines, n.e.c. and parts..	.....	GIEQ 8	XYZ	—	—	25	B
Wheel tractors, except garden and contractors' off highway (Specify belt horsepower and whether new or used.):							
71250 Wheel tractors, 125 belt horsepower and over.	No.	AGSU 2	VWXYZ	—	—	—	
71250 Wheel tractors, under 125 belt horsepower, used.	No.	AGSU 8	XYZ	—	—	25	B
71250 Wheel tractors, under 125 belt horsepower, new.	No.	AGSU 8	YZ	—	—	—	B
71250 Garden tractors, new and used.....	No.	AGSU 8	YZ	—	—	—	B
Contractors' off-highway wheel tractors (specify whether military or non-military and net brake horsepower and whether new or used) [Report parts and accessories in Export Control Commodity No. 73288.]							
71250 Military type contractors' off-highway wheel tractors, new and used.	No.	CONS 1	TVWXYZ	500	—	—	A
71250 Non-military contractors' off-highway wheel tractors, 135 net brake horsepower and over, new and used.	No.	CONS 2	VWXYZ	—	—	—	E-11
71250 Non-military contractors' off-highway wheel tractors, under 135 net brake horsepower, new and used.	No.	CONS 8	XYZ	—	—	25	B

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
Tracklaying type tractors (specify whether military or non-military and drawbar horsepower and whether new or used) [Report parts and accessories in Export Control Commodity No. 73288.]:							
71250 Military type tracklaying tractors.....	No.	CONS 1	TVWXYZ	500	—	—	A
71250 Non-military type tracklaying tractors, 112 drawbar horsepower and over.	No.	CONS 2	VWXYZ	—	—	—	E-11
71250 Non-military type tracklaying tractors, under 112 drawbar horsepower, new or used.	No.	CONS 8	XYZ	—	—	25	B
71291 Presses and crushers used in making fruit juice, wine, and similar beverages, including parts.	.....	GIEQ 8	Z	—	—	—	B
71299 Incubators	No.	AGSU 8	YZ	—	—	—	B
71299 Other agricultural machinery, n.e.c., including parts and attachments.	.....	AGSU 8	YZ	—	—	—	B
Office machines:							
71410 Electric typing devices capable of being connected to and operating over a wire communication circuit.	No.	FINP 8	WXYZ	—	—	25	B
71410 Multitype typewriters (e.g., Varitypers®); and automatic typing devices with punched tape mechanisms (e.g., Justowriters®).	No.	FINP 8	YZ	—	—	—	B
71410 Other typewriters and checkwriting machines.	No.	FINP 8	Z	—	—	—	B
71420 Electronic computers as follows: (a) analog computers with one or more of the following characteristics: (i) containing a summer with a rated accuracy better than 1 part in 5,000 parts, or a multiplier or arbitrary adjustable function generator with a rated accuracy better than 1 part in 1,000 parts, (ii) containing or capable of incorporating a total of more than 75 summers, integrators, multipliers or function generators, (iii) incorporating facilities for automatic insertion or alteration of problem set-up, or (iv) incorporating any unit designed to function solely as a memory; (b) analog computers designed or modified for use in airborne vehicles, missiles, or space vehicles and rated for continuous operation at temperatures from below minus 45° C. to above plus 55° C., and equipment or systems incorporating such computers; (c) other analog computers; (d) digital computers using drum or disc type primary memory and possessing; (i) a total rated directly addressable storage capacity in excess of 1,000,000 bits (the same limit defines both the maximum capacity a single storage equipment may possess and the combined capacity where multiple equipments are used), or (ii) a capacity of storage in excess of 250 bits per linear inch (250 bits per 25.4 mm) of single track (this limitation applies	.....	SATE 1	TVWXYZ	500	100	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
to each storage equipment involved); (e) digital differential analyzers (incremental computers), the following: (i) incorporating more than 50 integrators, or (ii) incorporating integrators with an incremental cycle time of less than 1 millisecond (or an iteration rate in excess of 1,000 per second); (f) digital computers and digital differential analyzers (incremental computers) designed or modified for use in airborne vehicles, missiles, or space vehicles and rated for continuous operation at temperatures from below minus 45° C. to above plus 55° C., and equipment or systems incorporating such computers or analyzers; (g) or other digital computers and differential analyzers (incremental computers). (Specify name and model number and applicable characteristics).							
71420 Parts and accessories, specially fabricated for electronic computers and auxiliary machines, under Export Control Commodity Nos. 71420 and 71430 which are subject to the Import Certificate/Delivery Verification procedure (specify by name of part and name of equipment for which it is designed).	.....	SATE 1	TVWXYZ	500	100	—	A
71420 Components, sub-assemblies, input/output devices, or other peripheral equipment for the computers and auxiliary machines listed under Export Control Commodity Nos. 71420 and 71430 which are subject to the Import Certificate/Delivery Verification procedure; and accessories. (Specify by name).	.....	SATE 1	TVWXYZ	500	100	—	A
71420 Accounting and bookkeeping machines, new and used; listing-adding machines, new; nonlisting calculating machines, new, <i>excluding pocket types</i> ; and printing-calculating machines, new.	No.	FINP 8	XYZ	—	—	25	B
71420 Calculating machines, used and rebuilt; and Fotolist® machines.	No.	FINP 8	XYZ	—	—	25	B
71420 Listing-adding machines, used; nonlisting adding machines, new and used; and pocket adding machines, new and used.	No.	FINP 8	YZ	—	—	—	B
71420 Mail handling machines, and cash registers, new and used.	No.	FINP 8	Z	—	—	—	B
71420 Other statistical machines used in conjunction with punched cards or tape, including auxiliary machines. (Specify by name.)	No.	FINP 8	XYZ	—	—	25	B
71430 Machines specially designed for use with electronic computers. (Specify by name and model number.)	No.	SATE 1	TVWXYZ	500	100	—	A
71491 Duplicating machines	No.	FINP 8	Z	—	—	—	B

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71491 Collating machines (other than punched-card collators); cylinder (dictating machine) shaving machines; Formaliners®; photo composing machines (e.g., Coxheadliners®; Headliners®; and Typros®).	No.	FINP 8	YZ	—	—	—	B
71491 Other office machines, n.e.c.....	No.	FINP 8	Z	—	—	—	B
Parts for office machines:							
71492 Parts specially fabricated for electric typing devices capable of being connected to and operating over a wire communication circuit.	.....	FINP 8	WXYZ	—	—	25	B
71492 Parts specially fabricated for the following: accounting and bookkeeping machines; listing-adding machines; calculating machines, <i>except pocket types</i> ; Fotolist® machines; and statistical machines used in conjunction with punched cards or tape, other than electronic computer auxiliary machines.	.....	FINP 8	XYZ	—	—	25	B
71492 Parts specially fabricated for the following: multitype typewriters (e.g., Varitypers®); automatic typing devices with punched tape mechanisms (e.g., Justowriters®); nonlisting adding machines; pocket adding machines; collating machines (other than punched-card collators); cylinder (dictating machine) shaving machines; Formaliners®; Headliners®; and Typros®.	.....	FINP 8	YZ	—	—	—	B
71492 Other parts for office machines.....	.....	FINP 8	Z	—	—	—	B
Machine tools, metal cutting [Report parts in Export Control Commodity No. 71954]:							
71510 Machine tools designed for or equipped with electronic closed loop control systems in which a continuous feedback of information from the actual operation results in continuous correction of control commands, <i>excluding those control systems designed solely for positioning operations.</i> (See § 399.2, Interpretation 7.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Machine tools designed for or equipped with electronic closed loop control systems designed solely for positioning operations. (See § 399.2, Interpretation 7.)	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Jig boring machines with longitudinal, transverse or vertical table travel exceeding 44 inches.	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Bomb nose and tail boring machines.....	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Armor plate drilling machines.....	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Hollow drill deep-hole drilling machines.....	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Projectile drilling and facing machines.....	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Gear-hobbing machines capable of producing gears of diametral pitch finer than 48. (See § 399.2, Interpretation 3.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Gear-tooth finishing machines, n.e.c., all types designed for work on gears of finer than 48 diametral pitch. (See § 399.2, Interpretation 3.)	No.	TOOL 1	TVWXYZ	500	500	—	A

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71510 Gear-tooth grinding machines, capable of grinding gears finer than 48 diametral pitch. (See § 399.2, Interpretation 3.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Gear-tooth grinding machines, generating types, with work capacity of 36 inches diameter and over. (See § 399.2, Interpretation 3.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Gear cutting machines, n.e.c., capable of producing gears of diametral pitch finer than 48. (See § 399.2, Interpretation 3.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Other gear tooth grinding machines and gear cutting machines producing gears of less than 48 diametral pitch and machines capable of grinding, or with work capacity of less than 36 inches diameter.	No.	TOOL 8	YZ	—	—	—	B
71510 External cylindrical grinding machines, equipped to grind gas turbine blades or rotors.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Internal grinding machines incorporating one or more spindle heads capable of speeds in excess of 120,000 r.p.m.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Internal grinding machines incorporating one or more spindle heads capable of speeds from 80,000 r.p.m. up to and including 120,000 r.p.m.	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Grinding machines for broaching tools, automatic cycle, automatic sizing.	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Honing machines, vertical or horizontal, of 6 ft. stroke or more.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Jig grinding machines with longitudinal, transverse or vertical travel exceeding 44 inches.	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Tank turret bearing grinding machines....	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Bomb copy boring lathes.....	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Bomb spinning lathes.....	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Cartridge-case lathes	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Cartridge case mouth boring lathes.....	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Gun barrel trepanning lathes.....	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Gun-boring lathes	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Gun jump screw lathes.....	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Shell lathes	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Other artillery and ammunition lathes, n.e.c.	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Combination lathe, drilling and milling machines, specially designed for mobile military workshops or for naval craft.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Jet engine compressor case boring lathes...	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Jet engine compressor and turbine disc turning lathes.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Right angle (T) lathes (in which the bed is at right angles to the spindle).	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Aircraft skin milling machines.....	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Spar millers	No.	TOOL 2	TVWXYZ	500	500	—	

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71510 Turbine blade profiling and duplicating milling machines.	No.	TOOL 2	TVWXYZ	500	—	—	
71510 Turbine blade milling machines, n.e.c.....	No.	TOOL 2	TVWXYZ	500	—	—	
71510 Accelerated lead rifle broaching machines and other rifling and rifle-working machines.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Machines specially designed for making gas turbine blades.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Armor plate planers.....	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Contour band sawing and band filing machines designed to permit operator to select rate of cutting speed and to vary such speed while in operation, and to maintain at all times the desired rate of speed with a variation of less than 2 percent.	No.	TOOL 2	VWXYZ	—	500	—	
71510 Shell tappers	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Portable pneumatic drill machines capable of tapping steel line pipe of a size greater than 19 inches o.d., without interruption of flow.	No.	TOOL 2	VWXYZ	—	—	—	
71510 Metal-cutting machine tools, n.e.c., specially designed for the manufacture of arms, munitions, or implements of war. ¹	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Other metal-cutting machines, n.e.c., <i>excluding single-spindle automatic chucking lathes and between-center lathes; and manually-operated bench and floor types of metal polishing and buffing machines.</i>	No.	TOOL 8	WXYZ	—	—	25	B
71510 Single-spindle automatic chucking lathes and between-center lathes.	No.	TOOL 8	XYZ	—	—	25	B
71510 Metal-polishing and buffing machines, manually operated bench and floor types.	No.	TOOL 8	Z	—	—	—	B
Machine tools for metal, other than metal-cutting, for working metals. [Report parts in Export Control Commodity No. 71954]:							
71510 Machine tools specially designed for the manufacture of arms, munitions, and implements of war. ¹ (Specify type of machine.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Machine tools specially designed for the working or forming of aircraft sheet, plate, or extrusion. (Specify type of machine.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Machine tools designed for or equipped with electronic closed loop control systems in which a continuous feedback of information from the actual operation results in continuous correction of control commands, <i>excluding those control systems designed solely for positioning operations.</i> (See § 399.2, Interpretation 7.)	No.	TOOL 1	TVWXYZ	500	500	—	A

¹ Arms, munitions, and implements of war are all items designated in paragraph 370.5(a). Categories I through XVI.

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71510 Other machine tools designed for or equipped with electronic closed loop control systems designed solely for positioning operations. (See § 399.2, Interpretation 7.)	No.	TOOL 2	TVWXYZ	500	100	—	
71510 Gear roll forming machines capable of forming gears of finer than 48 diametral pitch. (See § 399.2, Interpretation 3.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Spin-forming machines with drive motors of 50 horsepower capacity or over.	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Spin-forming machines with drive motors of over 25 horsepower up to but not including 50 horsepower capacity.	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Spin-forming machines with drive motors of 15 up to and including 25 horsepower capacity.	No.	TOOL 2	VWXYZ	—	500	—	
71510 Roll forming machines with drive motors over 25 horsepower, as follows: (a) rotary (spin) forming machines, or (b) extrusion machines, roll type.	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Spin forging machines, with drive motors over 25 horsepower.	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Armor plate quenching presses.....	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Presses, as follows: (a) stabilized equipment using rams, for applying high impact energy work forces through use of explosives or compressed gases including air, (b) presses specially designed or re-designed for the working or forming of metals, alloys, or other materials with a melting point exceeding 1900° C., and (c) other presses with total rated capacity over 10,000 tons. (Specify model and rated tonnage capacity.)	No.	TOOL 1	TVWXYZ	500	500	—	A
71510 Other hydraulic or mechanical presses with rated capacity over 5,000 tons up to and including 10,000 tons. (Specify model and rated tonnage capacity.)	No.	TOOL 2	TVWXYZ	500	500	—	
71510 Other presses specially designed for the manufacture of steel pipe of a size greater than 19 inches o.d., as follows: (a) O-ing presses, (b) U-ing presses, and (c) straightener-expander presses.	No.	TOOL 2	VWXYZ	—	500	—	
71510 Other hydraulic or mechanical presses with rated capacities of 2,000 tons up to and including 5,000 tons.	No.	TOOL 2	VWXYZ	—	—	—	
71510 Bomb nose and tail forging machines.....	No.	TOOL 1	TVWXYZ	500	100	—	A
71510 Forging hammers as follows: (a) counter-blow hammers having rated sizes of 25,000 kilogram meters (181,250 foot-pounds) or more, (b) rotary impact forging hammers of rated sizes of 10,000 foot-pounds or more, (c) horizontal impact	No.	TOOL 2	TVWXYZ	500	500	—	

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
hammers, (d) forging hammers having falling weight exceeding 10 tons; and (e) other steam, air, or mechanical hammers of rated size exceeding 10 tons. (Specify type, falling weight, or rated size.)							
71510 Electron beam machines, <i>excluding equipment using the "sparking" technique.</i> [Report electron beam furnaces and electron beam welders in Export Control Commodity No. 72992; and electron beam coating machines in Export Control Commodity No. 71980.]	No.	TOOL 1	TVWXYZ	500	—	—	A
71510 Portable pipe bending machines capable of bending pipe of 16 inch diameter and over.	No.	TOOL 2	TVWXYZ	500	—	—	
71510 Portable drilling machines capable of tapping steel line pipe of a size greater than 19 inches o.d. without interruption of flow.	No.	TOOL 2	VWXYZ	—	—	—	
71510 Other machine tools for metal <i>excluding metal-cutting.</i>	No.	TOOL 8	WXYZ	—	—	25	B
71521 Centrifugal casting machines for casting tubes 6 feet long or over with wall thickness of 2 inches or over; and specially designed parts and accessories.	.....	TOOL 1	TVWXYZ	500	500	—	A
71521 Artillery casting machines and other foundry machines specially designed for the manufacture of arms, munitions, or implements of war; and specially designed parts and accessories, n.e.c.	.....	TOOL 1	TVWXYZ	500	500	—	A
71521 Other foundry equipment, <i>excluding converters and ingot molds.</i>	.....	TOOL 8	WXYZ	—	—	25	B
71521 Bessemer converters, open hearth converters, and other metallurgical converters.	.....	TOOL 8	XYZ	—	—	25	B
71521 Ingot molds	S. ton	TOOL 8	YZ	—	—	—	B
Rolling mills and parts (See § 399.2, Interpretation 16):							
71522 Metal rolling mills with work rolls supported by multiple back-up rolls or bearings (for example, Senzimir cold mills); and specially designed parts and accessories, <i>excluding work rolls.</i>	.....¹	TOOL 1	TVWXYZ	500	500	—	A
71522 Metal sheet, plate, strip, or foil mills (other than aluminum foil mills), hot or cold, having automatic work roll adjustment controls for tapering or contouring lengthwise of work piece; and specially designed parts and accessories, <i>excluding work rolls.</i>	.....¹	TOOL 1	TVWXYZ	500	500	—	A
71522 Metal rolling mills (all types) specially designed or redesigned for rolling of metals and alloys with melting point exceeding 1900° C. (3420° F.); and specially designed parts and accessories, <i>excluding work rolls.</i>	.....¹	TOOL 1	TVWXYZ	500	500	—	A

¹ Report back-up rolls and work rolls in "short ton."

Department of Commerce Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71522 Metal rolling mills, sheet, plate, strip, or foil (other than aluminum foil mills), more than 3 rolls high (including dual purpose mills for 2 or 4 high operation), which achieve special lateral and/or longitudinal contour control by one or more of the following methods or means: (a) having work rolls with a ratio of roll face length to diameter exceeding 6:1 with roll face length up to and including 30 inches, or exceeding 5:1 for rolls with roll face length over 30 inches, (b) maintaining work roll contour by concurrent deforming of back-up rolls, shafts or work rolls, or (c) any other features for achieving special lateral and/or longitudinal contour controls comparable to (a) or (b) above; and specially designed parts and accessories, <i>excluding work rolls.</i>	.....¹	TOOL 1	TVWXYZ	500	500	—	A
71522 Metal rolling mills with multiple work rolls rotating in a planetary form around the back-up rolls (for example, Senzimir hot mills); and specially designed parts and accessories, <i>excluding work rolls.</i>	.....¹	TOOL 2	TVWXYZ	500	500	—	
71522 Other metal rolling mills, sheet, plate, strip, or foil (other than aluminum foil mills), more than 3 rolls high (including dual purpose mills for 2 or 4 high operation), which achieve special lateral and/or longitudinal contour control by one or more of the following methods or means: (a) incorporating closed loop electronic continuous gauge controls, (b) by use of control tensiometers for measuring and automatically maintaining appropriate adjustment of tension of metal being rolled, or (c) any other features for achieving special lateral and/or longitudinal contour controls comparable to (a) or (b) above; and specially designed parts and accessories, <i>excluding work rolls.</i>	.....¹	TOOL 2	TVWXYZ	500	500	—	
71522 Other continuous cold sheet and strip mills of more than three-high roll stands; and specially designed parts and accessories, <i>excluding work rolls.</i>	.....¹	TOOL 2	TVWXYZ	500	500	—	
71522 Other plate rolling mills; other continuous cold sheet and strip mills of more than three high roll stands; and pipe mills specially designed for the manufacture of steel pipe of a size greater than 19 inches o.d.; and specially designed parts and accessories, <i>excluding work rolls.</i> ¹	TOOL 2	VWXYZ	—	100	—	

¹ Report back-up rolls and work rolls in "short ton."

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71522 Other rolling mill machines and equipment, including pipe or tube mill machines; and parts and accessories; and all work rolls for rolling mills.	.....¹	TOOL 8	WXYZ	—	—	25	B
71523 Flame cutting machines with tracer heads designed for or equipped with electronic closed loop control systems in which a continuous feedback of information from the actual operation results in continuous correction of control commands, <i>excluding those control systems designed solely for positioning operations</i> ; and specially fabricated parts and accessories, n.e.c. (See § 399.2, Interpretation 7.)	.....	TOOL 1	TVWXYZ	500	500	—	A
71523 Flame cutting machines with tracer heads designed for or equipped with electronic closed loop control systems designed solely for positioning operations; and specially fabricated parts and accessories, n.e.c. (See § 399.2, Interpretation 7.)	.....	TOOL 2	TVWXYZ	500	500	—	
71523 Other gas operated welding, cutting, brazing, and surface tempering machines and appliances, including parts and accessories, n.e.c.	.....	TOOL 8	WXYZ	—	—	25	B
Textile and leather machinery:							
71711 Cotton gins	No.	GIEQ 8	XYZ	—	—	25	B
71711 Machines for extruding man-made fibers, for preparing and processing natural or man-made fibers into yarns, and for winding <i>excluding cotton gins</i> .	No.	GIEQ 8	YZ	—	—	—	B
71712 Machines for producing fabric or trimmings, for embroidery work, and for preparing yarn for use on such machines.	No.	GIEQ 8	YZ	—	—	—	B
71713 Parts and attachments for cotton gins.....	.....	GIEQ 8	XYZ	—	—	25	B
71713 Parts and attachments (including needles) for textile machines, <i>excluding cotton gins</i>.	.....²	GIEQ 8	YZ	—	—	—	B
71714 Machinery for the manufacture or finishing of felt, <i>excluding hat-making machines and hat-blocking machines</i> , and parts, n.e.c.	.....	GIEQ 8	YZ	—	—	—	B
71714 Felt hat blocking machines and felt hat making machines, and parts.	.....	GIEQ 8	Z	—	—	—	B
71715 Bleaching, dyeing, and finishing machines; and industrial machines for drying stocks, yarns, cloth, etc.; and parts.	.....³	GIEQ 8	YZ	—	—	—	B
71715 Household and commercial laundry equipment, including dry cleaning equipment; and parts.	.....³	GIEQ 8	Z	—	—	—	B

¹ Report rolls being exported as replacement parts for rolling mills in "S. Ton."

² Report needles in "thousand."

³ Report complete machines (assembled or unassembled) in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71715 Other industrial machines for washing, cleaning, drying, bleaching, dyeing, dressing, or finishing textile yarns, fabrics, or made-up textile articles, laundry and dry cleaning machines and machines for printing on textiles, leather, wall-paper, linoleum, or other materials, and parts. ¹	.....	GIEQ 8	XYZ	—	—	25	B
71720 Shoe making and repairing machinery and parts.	.....	GIEQ 8	XYZ	—	—	25	B
71720 Other machinery for preparing, tanning or working hides, skins or leather (<i>excluding sewing machines</i>) and parts.	.....	GIEQ 8	Z	—	—	—	B
71730 Shoe sole stitching machines, including parts	.....¹	GIEQ 8	XYZ	—	—	25	B
71730 Industrial sewing machines, <i>excluding shoe sole stitching</i> , and parts, <i>excluding cabinets of wood</i> .	No. ¹	GIEQ 8	YZ	—	—	—	B
71730 Domestic sewing machines, and parts, <i>excluding cabinets of wood</i> .	No. ¹	FINP 8	Z	—	—	—	B
71730 Sewing machine cabinets, wood.....	.....	FINP 8	Z	—	—	—	B
71730 Needles, sewing machine.....	M.	FINP 8	XYZ	—	—	25	B
71811 Pulp and paper mill machines, new, used, or rebuilt, for making or finishing cellulosic pulp, or paperboard, and parts and attachments, <i>excluding corrugating machines; creping machines; edge runners; pulp molding machines; reeling machines; and electric laminators for restoring manuscripts and documents</i>.	.....¹	GIEQ 8	XYZ	—	—	25	B
71811 Laminators, electric, for restoring manuscripts and documents; and parts and attachments.	.....¹	ELME 8	XYZ	—	—	25	B
71811 Paper mill machines, as follows: corrugating machines; creping machines; edge runners; pulp molding machines; and reeling machines; and parts and attachments.	.....¹	GIEQ 8	YZ	—	—	—	B
71812 Machinery for cutting paper or for manufacturing products of paper pulp, paper, or paperboard and parts and attachments.	No.	GIEQ 8	YZ	—	—	—	B
71812 Paper bag-making machines; and parts and attachments.	.....¹	GIEQ 8	Z	—	—	—	B
71821 Bookbinding machines, and parts.....	.....	FINP 8	XYZ	—	—	25	B
71822 Electroplating, stereotyping, and photoengraving machines; and parts and accessories.	.....¹	FINP 8	XYZ	—	—	25	B
71822 Printing plates and cuts (electrotype, stereotype, halftone, lithographic, or engraved).	.....	FINP 8	XYZ	—	—	25	B
71822 Fonts, type; and Linotype® matrices.....	.....	FINP 8	YZ	—	—	—	B
71822 Typesetting machines; and parts and accessories, <i>excluding fonts and Linotype® matrices</i>.	.....¹	FINP 8	Z	—	—	—	B
71829 Printing machines, n.e.c., and parts..... ¹	FINP 8	Z	—	—	—	B

¹ Report complete machines (assembled or unassembled) in "number."

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71831 Machines used in the grain milling industry, and parts.	.....	GIEQ 8	Z	—	—	—	B
Other food-processing machinery, and parts:							
71839 Brewing machinery and equipment, n.e.c., and parts.	.....	GIEQ 8	XYZ	—	—	25	B
71839 Bakery machinery and equipment, n.e.c., and parts.	.....	GIEQ 8	YZ	—	—	—	B
71839 Sugar-plant machinery and equipment; n.e.c., and parts.	.....	GIEQ 8	YZ	—	—	—	B
71839 Other food processing machinery and equip- ment, n.e.c., and parts.	.....	GIEQ 8	Z	—	—	—	B
Excavating, leveling, mining, construction, highway and railroad maintenance equipment:							
71841 Road rollers, mechanically propelled, and parts.	.....¹	CONS 8	XYZ	—	—	25	B
71842 Construction equipment built to military specifications, specially designed for airborne transport.	No.	CONS 1	TVWXYZ	500	—	—	A
71842 Other construction equipment tractor- mounted, possessing or built to current military specifications differing materially from their nor- mal commercial specifications. (Specify as mili- tary.)	No.	CONS 1	TVWXYZ	500	—	—	A
71842 Power cranes, draglines, shovels, excavator type, crawler or walker mounted, full revolving, over 6 cu. yd. dipper capacity or over 100 tons crane lifting capacity, <i>excluding those built to military specifications, specially designed for air- borne transport.</i> (Specify type and capacity.)	No.	CONS 2	VWXYZ	—	—	—	
71842 Power cranes, draglines, shovels, excavator type, wheel-mounted, full revolving, over 1 cu. yd. dipper capacity or over 30 tons crane lifting ca- pacity, <i>excluding those built to military specifica- tions, specially designed for airborne transport.</i> (Specify type and capacity.)	No.	CONS 2	VWXYZ	—	—	—	E-11
71842 Other power cranes, draglines, shovels, ex- cavator type.	No.	CONS 8	XYZ	—	—	25	B
71842 Parts, accessories, and attachments specially designed for construction equipment built to mili- tary specifications. (Specify as military.)	.....	CONS 1	TVWXYZ	500	—	—	A
71842 Parts, accessories, and attachments, <i>exclud- ing cabs and cab guards (canopy tops)</i> , specially designed for the following excavator type power cranes, draglines, and shovels if not built to mili- tary specifications: (a) crawler or walker mounted, over 6 cu. yd. dipper capacity or over 100 tons crane lifting capacity, or (b) wheel mounted, over 1 cu. yd. dipper capacity or over 30 tons crane lifting capacity. (Specify as nonmilitary.)	.....	CONS 2	VWXYZ	—	1000	—	

¹ Report complete machines (assembled or unassembled) in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71842 Other parts, accessories, and attachments for power cranes, draglines, shovels, excavator type.	.....	CONS 8	XYZ	—	—	25	B
71842 Nonmilitary type scrapers, dig-carry-haul type, over 11 cu. yd. struck capacity. (Specify struck capacity.)	No.	CONS 2	VWXYZ	—	—	—	E-11
71842 Logging vehicles, self-propelled, 135 net brake horsepower and over. (Specify type and net brake horsepower.)	No.	CONS 2	VWXYZ	—	—	—	
71842 Pipe layers, specially designed (integrated track-laying type), 135 net brake horsepower and over. (Specify net brake horsepower.)	No.	CONS 2	VWXYZ	—	—	—	E-11
71842 Parts and accessories, <i>excluding cabs and cab guards (canopy tops)</i> specially designed for the following: (a) nonmilitary types of shovel loaders, 135 net brake horsepower or over, (b) nonmilitary types of scrapers, dig-carry-haul type, over 11 cu. yd. struck capacity, (c) logging vehicles, self-propelled, 135 net brake horsepower and over, and (d) pipe layers, specially designed (integrated tracklaying tractor type), 135 net brake horsepower and over. (Specify as nonmilitary.)	.....	CONS 2	VWXYZ	—	1000	—	E-11
71842 Dredging machines	No.	CONS 8	WXYZ	—	—	25	B
71842 Parts and accessories, for dredging machines.	.....	CONS 8	WXYZ	—	—	25	B
71842 Railway maintenance of way equipment, and parts and accessories, n.e.c.	.....	CONS 8	XYZ	—	—	25	B
71842 Dirt tampers	No.	CONS 8	YZ	—	—	—	B
71842 Logging sulkies, and logging arches, <i>excluding self-propelled of 135 net brake horsepower or over.</i>	No.	CONS 8	YZ	—	—	—	B
71842 Parts and accessories, n.e.c., specially fabricated for logging sulkies, and logging arches, <i>excluding self-propelled of 135 net brake horsepower or over.</i>	.....	CONS 8	YZ	—	—	—	B
71842 Asphalt cutters; and clay spades.....	.....	CONS 8	Z	—	—	—	B
71842 Other construction and excavating machines, n.e.c.; and parts, accessories, and attachments.	.....¹	CONS 8	XYZ	—	—	25	B
71842 Rotary drill rigs incorporating rotary tables with drawworks designed for an input of 150 horsepower and over. (Specify input horsepower.) [Report truck mounted rigs in Export Control Commodity No. 73203.]	No.	CONS 2	VWXYZ	—	—	—	

¹ Report attachments for mounting on tractors (dozers, backhoes, rippers, etc.) and complete machines (exclusive of attachments) in "number."

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71842-71911

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71842 Parts and accessories, n.e.c., specially fabricated for rotary drill (excluding core) rigs incorporating rotary tables with drawworks designed for an input of 150 horsepower and over, excluding crown and traveling blocks, hooks, swivels, drill collars, tool joints, kellys, and kelly and rotary substitutes. [Report derricks and masts in Export Control Commodity No. 71931.]	.....	CONS 2	VWXYZ	—	500	—	E-12
71842 Other drilling machines and mining machines; and parts, accessories and attachments.	.....¹	CONS 8	XYZ	—	—	25	B
71842 Asphalt heating kettles and heaters.....	.....	CONS 8	Z	—	—	—	B
71851 Machinery for crushing, sorting, washing, mixing, and forming minerals, excluding briquetting presses; buggies; concrete floor machines; cutting machines, other than powder cutting; grout mixers; plaster and mortar mixers; and rotary finishers; and parts.	.....¹	CONS 8	XYZ	—	—	25	B
71851 Equipment for mixing or forming minerals, and accessory equipment as follows: buggies; concrete floor machines; cutting machines, except powder cutting; grout mixers; plaster and mortar mixers; and rotary finishers.	.....¹	CONS 8	YZ	—	—	—	B
71851 Briquetting presses	No.	GIEQ 8	Z	—	—	—	B
71852 Glass-making, glass-forming and glass-finishing machines (specify by name), specially designed for producing glass components for electronic tubes, transistors, or crystal diodes; and specially designed parts and accessories, n.e.c.	.....	GIEQ 1	TVWXYZ	500	100	—	A
71852 Automatic or semiautomatic manufacturing and assembling machines, n.e.c. (specify by name) for the production of electronic tubes, transistors, or crystal diodes (including parts and subassemblies), excluding standard equipment designed for automatic or semiautomatic exhaust sealing and gettering of standard entertainment-type 7-pin miniature and 9-pin noval tubes; and specially designed parts and accessories, n.e.c.	.....	GIEQ 1	TVWXYZ	500	100	—	A
71852 Other glass working machinery, n.e.c., including parts.	.....	GIEQ 8	XYZ	—	—	25	B
Gas generators, and parts: 71911 Air, oxygen, nitrogen, argon, and/or hydrogen generating and/or liquefying equipment, specially designed for use in plants capable of producing one ton or more per 24-hour day of gas in liquid form, excluding equipment producing more than 25 percent of their total 24-hour daily product as extractable gas in liquid form; and specially designed parts.	.....	GIEQ 1	TVWXYZ	500	100	—	A

¹ Report complete machines (assembled or unassembled) in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71911 Other liquid oxygen or liquid nitrogen generators, mobile; and specially designed parts.	.....	GIEQ 2	TVWXYZ	500	500	—	
71911 Equipment for the production of liquid fluorine; and specially designed parts.	.....	GIEQ 1	TVWXYZ	500	100	—	A
71911 Equipment for the production and/or concentration of deuterium oxide; and specially designed parts.	.....	GIEQ 1	TVWXYZ	500	100	—	A
71911 Equipment for the separation of helium from natural gases; and specially designed parts.	.....	GIEQ 1	TVWXYZ	500	100	—	A
71911 Electrolytic cells for the production of fluorine, with a production capacity greater than 250 grams of fluorine per hour (specify by name); and specially designed parts.	.....	GIEQ 1	TVWXYZ	500	100	—	A
71911 Other electrolytic cells, n.e.c. (specify by name); and specially designed parts.	.....	GIEQ 2	TVWXYZ	500	100	—	
71911 Gas generators, and parts, <i>excluding acetylene gas generating apparatus, unitized.</i>	.....	GIEQ 8	XYZ	—	—	25	B
71911 Acetylene gas generating apparatus, unitized.	.....	GIEQ 8	Z	—	—	—	B
Air-conditioning machines, self-contained; and specially designed parts:							
71912 Air-conditioning machines, self-contained, for aircraft; and specially designed parts.	No.	GIEQ 2	TVWXYZ	500	500	—	E-2
71912 Other self-contained air-conditioning machines; and specially designed parts.	No.	GIEQ 8	XYZ	—	—	25	B
71913 Oil burners, ceramic cup type; and gas combustion burners, ceramic cup type; and specially designed parts.	.....¹	CONS 8	WXYZ	—	—	25	B
71913 Other oil and gas furnace burners.....	No.	CONS 8	XYZ	—	—	25	B
71913 Parts and attachments for oil and gas burners, <i>excluding ceramic cup type</i> ; and mechanical stokers, ash dischargers, mechanical grates, and parts and attachments.	.....	CONS 8	XYZ	—	—	25	B
Industrial and laboratory furnaces and ovens, non-electric, and parts:							
71914 Carbon black furnaces, continuous combustion, controlled reaction type; and specially designed parts and attachments.	.....²	CONS 2	VWXYZ	—	—	—	
71914 Non-electric industrial furnaces (heaters) of the following types: (a) cylindrical having a suspended deflecting cone, or (b) radiant wall employing multiple independently controlled ceramic cup burners; and specially designed parts and attachments.	.....²	CONS 8	WXYZ	—	—	25	B

¹ Report oil burners and gas combustion burners in "number."² Report complete furnaces and ovens (assembled or unassembled) in "number."

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71914-71919

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71914 Metal heat-treating furnaces, non-electric; and specially designed parts and attachments.	.....¹	CONS 8	WXYZ	—	—	25	B
71914 Other industrial furnaces and ovens, non-electric, and specially designed parts and attachments.	.....¹	CONS 8	XYZ	—	—	25	B
71914 Laboratory furnaces and ovens, non-electric; and parts and attachments.	.....¹	SATE 8	XYZ	—	—	25	B
Refrigerators (other than domestic), air conditioners (excluding self contained), and other refrigeration equipment, including parts, n.e.c.:							
71915 Cryogenic equipment as follows: (a) refrigerator types specially designed for use of liquefied gases as a coolant (for example, liquid gas refrigerators) capable of creating or maintaining temperatures below minus 130° C., or (b) other equipment capable of maintaining temperatures of below minus 130° C., and specially designed parts, n.e.c.	.....²	GIEQ 1	TVWXYZ	500	100	—	A
71915 Air conditioners, excluding self-contained, for aircraft; and specially designed parts.	.....²	GIEQ 2	TVWXYZ	500	500	—	E-2
71915 Walk-in coolers	.....²	GIEQ 8	YZ	—	—	—	B
71915 Commercial type refrigerators and freezers, excluding walk-in coolers; blood, bone and tissue bank freezers; deepfreeze storage cabinets; freezers capable of maintaining temperatures below minus 130° C.; and refrigerating systems for truck and railway cars; and parts therefor.	.....²	GIEQ 8	Z	—	—	—	B
71915 Air conditioners, excluding self-contained, for automobiles, trucks, busses, and trailers; and specially designed parts.	.....²	GIEQ 8	YZ	—	—	—	B
71915 Other air conditioners excluding self-contained, other refrigerators excluding domestic, and refrigeration equipment, and parts.	.....²	GIEQ 8	XYZ	—	—	25	B
71919 Electron ovens; and parts	.....	ELME 8	YZ	—	—	—	B
71919 Electric commercial cooking (excluding bakery), and food service equipment; and parts.	.....	ELME 8	Z	—	—	—	B
71919 Sterilizers and autoclaves, dental, medical, surgical and laboratory.	.....	SATE 8	Z	—	—	—	B
Machines and equipment for processing materials by means of a change in temperature (cooling, heating, drying, pasteurizing, cooking, distilling, etc.):							
For the special use of individual industries:							
71919 Brewery, vegetable oil mill, and commercial dairy and milk products processing machines for processing by means of a change in temperature (for example, driers, pasteurizers and boilers); and parts.	.....³	GIEQ 8	XYZ	—	—	25	B

¹ Report complete furnaces and ovens (assembled or unassembled) in "number."

² Report complete machines, air conditioners, refrigerators or refrigerating units (assembled or unassembled) in "number."

³ Report complete machines (assembled or unassembled) in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71919 Forage dehydrators: and bakery and sugar mill machines for processing by means of a change in temperature (for example, driers, evaporators, sugar extraction calorizers and carbonation vats); and parts.	.....¹	GIEQ 8	YZ	—	—	—	B
71919 Machines for processing by means of a change in temperature for food products industries, <i>excluding bakery, brewery, commercial dairy and milk products processing, sugar mill, and vegetable oil mill</i> ; and parts therefor.	.....¹	GIEQ 8	Z	—	—	—	B
71919 Machines for processing tobacco by means of a change in temperature (for example, driers); and parts.	.....	GIEQ 8	YZ	—	—	—	B
71919 Other machines and equipment for processing materials by means of a change in temperature, for the special use of individual industries, <i>excluding food products, tobacco and textile industries</i> ; and parts.	.....	GIEQ 8	XYZ	—	—	25	B
For general use:							
71919 Machines and equipment specially designed for use at temperatures below minus 130° C.; and specially designed parts.	.....¹	GIEQ 1	TVWXYZ	500	100	—	A
71919 Equipment for the manufacture of semiconductor materials as follows: (a) equipment specially designed for the production or processing of dendritic forms of any semiconductor material or combination thereof, suitable for use in diodes or transistors, or (b) equipment specially designed or modified to be capable of purifying or processing one or more semiconductor materials, <i>excluding equipment specially designed for the zone purification of germanium</i> ; and specially designed parts.	.....	GIEQ 1	TVWXYZ	500	—	—	A
71919 Equipment specially designed for the zone purification of germanium; and specially designed parts.	.....	GIEQ 2	TVWXYZ	500	—	—	
71919 Heat exchangers made of aluminum, copper, nickel, or alloys containing more than 60 percent nickel, or combinations of these metals as clad tubes, designed to operate at sub-atmospheric pressure, with a leak rate of less than 10 ⁻⁴ atmospheres per hour under a pressure differential of 1 atmosphere (specify type of metal and operation specifications); and specially designed parts. [Report tubing shipped as spares or replacements under tubular products, according to material.]	.....²	GIEQ 1	TVWXYZ	500	100	—	A

¹ Report complete machines (assembled or unassembled) in "number."² Report heat exchangers in "number."

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71919-71921

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71919 Other heat exchangers designed to operate at pressures of 300 psi and above and with all flow-contact surfaces made of any of the following materials: aluminum, nickel, titanium, zirconium, or alloys containing 60 percent or more nickel, either separately or combined (specify pressure and type of metal); and specially designed parts. [Report tubing shipped as spares or replacements under tubular products according to material.]	.....¹	GIEQ 2	TVWXYZ	500	100	—	
71919 Fractionating columns having, or having provisions for, 25 or more trays; and specially designed parts.	.....	GIEQ 8	WXYZ	—	—	25	B
71919 Other fractionating columns, heat exchangers and processing vessels having all flow-contact surfaces made of or lined with any of the following materials: (a) 90 percent or more tantalum, titanium, or zirconium either separately or combined, (b) 50 percent or more cobalt, molybdenum, nickel or tungsten either separately or combined, (c) 13 percent or more silicon, (d) steel alloys containing more than 3 percent of (i) chromium and molybdenum combined, or (ii) chromium and tungsten combined, or (iii) chromium, molybdenum, or tungsten combined; (e) 2.5 percent or more nickel, (f) fluoro and/or silico resins, (g) glass (acid-, heat-, or shock-resistant), (h) ceramics, (i) carbon, (j) graphite, or (k) acid/heat resistant cement; and specially designed parts for such heat exchangers.	.....¹	GIEQ 8	WXYZ	—	—	25	B
71919 Cooling towers; cooling pond units.....	.....	GIEQ 8	YZ	—	—	—	B
71919 Asphalt heating kettles and heaters.....	.....	CONS 8	Z	—	—	—	B
71919 Dri-Air units; and parts.....	.....	GIEQ 8	Z	—	—	—	B
71919 Other machines and equipment not for special use of an individual industry (other than domestic) for processing materials by means of a change in temperature; and parts therefor. Pumps for liquids, and parts:	.....²	GIEQ 8	XYZ	—	—	25	B
71921 Industrial pumps having all flow-contact surfaces made of any of the following materials: (a) 90 percent or more tantalum, titanium, or zirconium, either separately or combined, (b) 50 percent or more cobalt or molybdenum, either separately or combined, (c) polytetrafluoroethylene, or (d) polytrifluorochloroethylene. (Specify metal content in percent.)	No.	CONS 1	TVWXYZ	500	—	—	A

¹ Report heat exchangers in "number."

² Report condensing units and heat exchangers in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71921 Industrial pumps specially designed for operation at temperatures below minus 274 degrees F. (minus 170 degrees C.), <i>excluding pumps with a flow rate of 100 gallons per minute or less designed to operate at temperatures above minus 328 degrees F. (minus 200 degrees C.).</i> (Specify designed operating temperatures and gpm.)	No.	CONS 1	TVWXYZ	500	—	—	A
71921 Other industrial pumps designed to operate at temperatures below minus 200 degrees F. (minus 130° C.). (Specify designed operating temperatures.)	No.	CONS 2	TVWXYZ	500	—	—	
71921 Centrifugal pumps, glandless, hermetically-sealed (canned type), having all flow-contact surfaces made of 10 percent or more chromium or nickel, either separately or combined. (Identify type and specify metal content in percent.)	No.	CONS 2	TVWXYZ	500	—	—	
71921 Pumps designed to move molten metals by electro-magnetic forces. (Specify type and that pumps are so designed.)	No.	CONS 1	TVWXYZ	500	—	—	A
71921 Other centrifugal pumps having any of the following characteristics: (a) designed to deliver at pressures of 1000 psi or over <i>and</i> to operate at temperatures of 350 degrees F. and over; (b) designed to operate at speeds of 7000 rpm or over <i>and</i> to produce pressures of 800 psi or over <i>and</i> having all flow-contact surfaces made of 10 percent or more chromium or nickel, either separately or combined; or (c) designed for an internal pump-case working pressure of over 300 psi <i>and</i> a power input greater than 1000 horsepower. (Give specifications and type pump.)	No.	CONS 2	VWXYZ	—	—	—	
71921 Other pumps designed to deliver at pressures of 1,000 psi and over <i>and</i> to operate at temperatures of 350° F. and over. (Specify designed delivery pressure and operating temperature.)	No.	CONS 2	VWXYZ	—	—	—	
71921 Slush (mud) pumps reciprocating type, designed to deliver at pressures of 1,000 psi or over <i>and</i> requiring a drive rated 200 horsepower or over. (Specify delivery pressure and horsepower.)	No.	CONS 2	VWXYZ	—	—	—	
71921 Oilfield production (bottom hole) pumps.....	No.	CONS 2	VWXYZ	—	—	—	E-12
71921 Other industrial pumps specially designed for use in the processing of petroleum, petrochemicals, natural gas, or their fractions; and specially designed parts and attachments therefor.	.....¹	CONS 8	WXYZ	—	—	25	B
71921 Other industrial pumps having all flow-contact surfaces made of or lined with any of the following materials: (a) 90 percent or more tantalum, titanium, or zirconium either separately or ¹	CONS 8	WXYZ	—	—	25	B

¹ Report complete pumps (assembled or unassembled) in "number."

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71921-71922

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
combined; (b) 50 percent or more cobalt, molybdenum, nickel or tungsten either separately or combined; (c) 13 percent or more silicon; (d) steel alloys containing more than 3 percent of (i) chromium and molybdenum combined, (ii) chromium and tungsten combined, or (iii) chromium, molybdenum, or tungsten combined; (e) 2.5 percent or more nickel; (f) fluoro and/or silico resins; (g) glass (acid-, heat-, or shock-resistant); (h) ceramics; (i) carbon; (j) graphite; or (k) acid/heat resistant cement; and specially designed parts and attachments therefor.							
71921 Other pumps for liquids, <i>excluding hand pumps; windmill pumps; self-contained household water systems; and service station pumps; and parts and attachments therefor.</i>	.....¹	CONS 8	XYZ	—	—	25	B
71921 Hand pumps; windmill pumps; self-contained household water systems; and service station pumps; and parts and attachments therefor.	.....¹	CONS 8	Z	—	—	—	B
71921 Pump parts and attachments wholly made of fluorocarbon polymers and/or copolymers. (See § 399.2, Interpretation 22.)	.....	CONS 1	TVWXYZ	500	100	—	A
71921 Parts and attachments specially designed for pumps under Export Control Commodity No. 71921 which are subject to the Import Certificate/Delivery Verification procedure.	.....	CONS 1	TVWXYZ	500	100	—	A
71921 Parts and attachments specially designed for pumps under Export Control Commodity No. 71921 which require a validated license to all destinations but which are not subject to the Import Certificate/Delivery Verification procedure.	.....	CONS 2	TVWXYZ	500	100	—	
71921 Parts and attachments specially designed for pumps under Export Control Commodity No. 71921 which require a validated license to all destinations other than T destinations.	.....	CONS 2	VWXYZ	—	500	—	
Pumps for gases; air or gas compressors; fans and blowers, <i>excluding household fans; and parts:</i>							
71922 Cryopump systems (that is, systems in which the circulation of liquefied gas is used to achieve a vacuum—static or dynamic—by lowering the temperature of the environment), and parts and accessories.	No.	GIEQ 1	TVWXYZ	500	—	—	A
71922 Diffusion vacuum pumps rated for un baffled pumping, speeds of more than 50,000 liters of nitrogen per second at pressures of 10 ⁻⁴ mm. of mercury or less, and parts and accessories.	No.	GIEQ 1	TVWXYZ	500	—	—	A
71922 Turbo-molecular pumps having a capacity higher than 2,000 liters of nitrogen per second.	No.	CONS 9	TVWXYZ	500	—	—	A

¹ Report complete pumps (assembled or unassembled) in "number."

RULES AND REGULATIONS

Commodity Control List—399.1

71922

CCL-103

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71922 Ion vacuum pumps having speeds of 800 or more liters of hydrogen per second at pressures of 10 ⁻⁴ mm./Hg or more, and parts and accessories.	No.	GIEQ 1	TVWXYZ	500	—	—	A
71922 Other ion vacuum pumps and parts and accessories.	No.	GIEQ 2	TVWXYZ	500	—	—	
71922 Other diffusion vacuum pumps, 12 inches in diameter and larger (diameter measured inside the barrel at the inlet jet), and parts and accessories.	No.	GIEQ 2	TVWXYZ	500	—	—	
71922 Other vacuum pumps.....	No.	GIEQ 8	XYZ	—	—	25	B
71922 Vacuum pump parts and accessories wholly made of fluorocarbon polymers and/or copolymers. (See § 399.2, Interpretation 22.)	.....	GIEQ 1	TVWXYZ	500	100	—	A
71922 Compressors and blowers (turbo, centrifugal, and axial flow types) having a designed capacity of 60 cfm or more and all flow-contact surfaces made of aluminum, nickel, or alloy containing 60 percent or more nickel; and specially designed parts and attachments. (Specify cfm capacity, discharge pressure, kind of metal, and if nickel alloy, state percentage of nickel content.)	.....¹	CONS 1	TVWXYZ	500	500	—	A
71922 Centrifugal and axial flow compressors and blowers capable of: (a) an overall compression ratio of 2:1 or more coupled with a capacity of over 372,000 cubic feet per minute, or (b) an overall compression ratio of 3:1 or more coupled with a capacity of 106,000 cubic feet per minute or more; and specially designed parts and attachments.	.....¹	CONS 1	TVWXYZ	500	—	—	A
71922 Compressors for jet and gas turbines for aircraft engines of 9,000 pounds thrust and over; and parts.	.....	TRAN 1	TVWXYZ	500	—	—	A
71922 Compressors for other jet and gas turbines for aircraft; and parts.	.....	TRAN 2	TVWXYZ	500	—	—	E-2
71922 Other compressors and blowers capable of receiving a power input greater than 2,000 horsepower and designed for a discharge greater than 300 psi; and specially designed parts and attachments.	.....¹	CONS 2	VWXYZ	—	—	—	
71922 Other compressors and blowers capable of receiving a power input of 500 horsepower or greater and specially designed for use in the processing of petroleum, petrochemicals, natural gas or their fractions; and specially designed parts and attachments.	.....¹	CONS 8	WXYZ	—	—	25	B
71922 Other reciprocating compressors over 125 horsepower and all other centrifugal, axial flow and mixed flow compressors and blowers having all flow-contact surfaces made of or lined with any of the following materials: (a) 90 percent or more tantalum, titanium, or zirconium either separately or combined, (b) 50 percent or more cobalt, molyb-	.....¹	CONS 8	WXYZ	—	—	25	B

¹ Report complete compressors and blowers (assembled or unassembled) in "number."

CCL-104

71922-71923

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
denum, nickel or tungsten either separately or combined, (c) 13 percent or more silicon, (d) steel alloys containing more than 3 percent of (i) chromium and molybdenum combined, (ii) chromium and tungsten combined, or (iii) chromium, molybdenum, or tungsten combined; (e) 2.5 percent or more nickel, (f) fluoro and/or silico resins, (g) glass (acid-, heat-, or shock-resistant), (h) ceramics, (i) carbon, (j) graphite, or (k) acid/heat resistant cement; and specially designed parts and attachments.							
71922 Other blowers, compressors and fans; and parts and attachments. <i>Centrifuges (excluding cream separators) and filtering and purifying machines for liquids, air, and gases; and parts:</i>	.....¹	CONS 8	XYZ	—	—	25	B
71923 Counter-current solvent extractors specially designed for the extraction of radioactive substances (for example, pulsed columns and mixer-settlers made of stainless steel); and specially designed parts.	GIEQ 1	TVWXYZ	500	100	—	A
71923 Gas centrifuges capable of the enrichment or separation of isotopes; and specially designed parts.	GIEQ 1	TVWXYZ	500	100	—	A
71923 Centrifugal counter-current solvent extractors; and specially designed parts.	GIEQ 2	TVWXYZ	500	100	—	
71923 Other centrifuges, power-driven, bowl type, with product contact surfaces of aluminum, nickel, or alloy containing 60 percent or more nickel. (Specify by name; and specify kind of metal and, if nickel alloy, state percentage of nickel content.)	GIEQ 2	TVWXYZ	500	100	—	
71923 Centrifuge bowls, wholly made of or lined with aluminum, nickel, or alloy containing 60 percent or more nickel. (Specify by name and specify kind of metal and, if nickel alloy, state percentage of nickel content.)	GIEQ 2	TVWXYZ	500	100	—	
71923 Separators and collectors specially designed for use at temperatures below minus 130° C.; and specially designed parts.	GIEQ 1	TVWXYZ	500	100	—	A
71923 Oil and gas separators other than field production units; and specially designed parts.	GIEQ 2	TVWXYZ	500	100	—	
71923 Petroleum dehydrators, and petroleum desalters and specially designed parts.	GIEQ 2	VWXYZ	—	100	—	
71923 Water purifiers, water softeners, water filters, and other filtering, purifying, and separating machines for water treatment and sewage disposal; and specially designed parts.	CONS 8	XYZ	—	—	25	B

¹ Report complete compressors and blowers (assembled or unassembled) in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71923 Other centrifuges (<i>excluding cream separators</i>) and filtering and purifying machines for liquids, air, and gases, including laundry dryers, centrifugal type, commercial; and parts therefor, <i>excluding Centrifix type RW line purifiers</i>®.	.....	GIEQ 8	XYZ	—	—	25	B
71923 Centrifix type RW line purifiers®.....	.....	GIEQ 8	Z	—	—	—	B
Lifting, loading, and conveying machinery and equipment, n.e.c., and parts:							
71931 Military type integral tractors shovel loaders. ¹	No.	CONS 1	TVWXYZ	500	—	—	A
71931 Nonmilitary type integral tractors shovel loaders, 135 brake horsepower and over. (Specify type, whether wheel or track-laying mounted, and net brake horsepower.)	No.	CONS 2	VWXYZ	—	—	—	E-11
71931 Parts and attachment specially designed for military type integral tractors shovel loaders. ¹ (Specify as military.)	.....	CONS 1	TVWXYZ	500	—	—	A
71931 Parts and attachments specially designed for nonmilitary type integral tractors shovel loaders, of 135 brake horsepower and over, <i>excluding cabs and cab guards (canopy tops)</i> . (Specify as non-military.)	.....	CONS 2	VWXYZ	—	1,000	—	E-11
71931 Oilfield derricks, masts, platforms, and sub-structures; casinghead and christmas tree assemblies less than 2,000 psi, and specially designed parts, n.e.c.	.....	CONS 8	XYZ	—	—	25	B
71931 Other oil and gas field equipment, n.e.c., and specially fabricated parts and accessories, n.e.c., <i>excluding oilfield derricks, masts, platforms, sub-structures, and casinghead and christmas tree assemblies less than 2,000 psi</i> . (Specify by name.) [Report rotary well drilling machines and parts under Export Control Commodity No. 71842; if truck mounted, report under Export Control Commodity No. 73203; report oil and gas separators other than field production units under Export Control Commodity No. 71923.]	.....	CONS 2	VWXYZ	—	500	—	E-12
71931 Oil and gas field production equipment, n.e.c., and parts, n.e.c. (Specify by name.) [For oil and gas separators other than field production units, see Export Control Commodity No. 71923.]	.....	CONS 2	VWXYZ	—	500	—	E-12
71931 Overhead hoists, pendant type; and parts...	.....	CONS 8	Z	—	—	—	B
71931 Jacks, general purpose, hand-operated, mechanical and hydraulic; and parts.	.....²	FINP 8	XYZ	—	—	25	B
71931 Farm elevators; and parts.....	.....	AGSU 8	YZ	—	—	—	B
71931 Elevators and moving stairways; and parts	.....	CONS 8	YZ	—	—	—	B

¹ Possessing or built to current military specifications differing materially from normal commercial specifications.

² Report complete machines (assembled or unassembled) in "number."

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71931-71952

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71931 Other lifting, loading, and conveying machinery and equipment; and parts.	CONS 8	XYZ	—	—	25	B
71931 Military type industrial tractors and lift trucks. ¹	No.	CONS 1	TVWXYZ	500	—	—	A
71931 Nonmilitary type industrial tractors and lift trucks, 135 net brake horsepower and over. (Specify net brake horsepower.)	No.	CONS 2	VWXYZ	—	—	—	E-11
71931 Parts specially designed for military type industrial tractors and lift trucks. ¹	CONS 1	TVWXYZ	500	—	—	A
71931 Parts specially designed for nonmilitary type industrial tractors and lift trucks of 135 net brake horsepower and over, <i>excluding cabs and cab guards (canopy tops)</i>	CONS 2	VWXYZ	—	1,000	—	E-11
71931 Other industrial trucks, tractors and portable elevators of a kind used for moving goods in plants, railway stations and similar installations; and parts.	CONS 8	XYZ	—	—	25	B
71941 Butter churns, farm type; and parts.....	AGSU 8	YZ	—	—	—	B
71941 Other domestic food-processing appliances, nonelectric; and parts.	FINP 8	Z	—	—	—	B
71942 Domestic type refrigerators and freezers, nonelectric; and parts, <i>excluding condensers and evaporators</i>	FINP 8	Z	—	—	—	B
71942 Condensers and evaporators for nonelectric domestic refrigerators.	FINP 8	XYZ	—	—	25	B
71943 Domestic water heaters, nonelectric; and parts.	FINP 8	Z	—	—	—	B
71951 Sawing, cutting, engraving and other machines for working masonry or stone. [Report parts under Export Control Commodity No. 71954.]	CONS 8	XYZ	—	—	25	B
71951 Optical curve generators capable of producing aspherical curves without the use of mating surfaces; and specially designed parts and accessories, n.e.c.	GIEQ 2	VWXYZ	—	100	—	
71951 Cutting machines for ceramics and similar nonmetallic materials, <i>excluding glass, quartz crystal, masonry or stone</i> . [Report parts in Export Control Commodity No. 71954.]	GIEQ 8	YZ	—	—	—	B
71951 Other machine tools, n.e.c., for working asbestos-cement, ceramics, concrete, glass, quartz crystals, stone (including artificial precious and semiprecious stones) and similar mineral materials. [Report parts in Export Control Commodity No. 71954.]	GIEQ 8	XYZ	—	—	25	B
71952 Machines, n.e.c., for working bone, ebonite, hard plastics, and other hard carving materials, <i>excluding wood and cork</i> . [Report parts in Export Control Commodity No. 71954.]	No.	GIEQ 8	XYZ	—	—	25	B

¹ Possessing or built to current military specifications differing materially from normal commercial specifications.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71952 Sawmill machines and equipment and parts. (Specify by name.)	.....	GIEQ 8	Z	—	—	—	B
71952 Other woodworking machines (including machines for working cork). [Report parts in Export Control Commodity No. 71954.] Power-operated nonelectric hand tools, and parts:	No.	GIEQ 8	Z	—	—	—	B
71953 Portable drilling machines, pneumatic or hydraulic, capable of tapping steel line pipe of a size greater than 19 inches o.d. without interruption of flow; and specially designed parts and attachments.	.....	TOOL 10	VWXYZ	—	—	—	
71953 Other power operated nonelectric hand tools, metalworking; and parts and attachments.	.....	TOOL 8	WXYZ	—	—	25	B
71953 Concrete vibrators, power-operated, nonelectric, hand-held; and parts and attachments.	.....	CONS 8	YZ	—	—	—	B
71953 Other hydraulic vibrators and parts and attachments and lubricating equipment, force-feed, pneumatic, and parts and attachments.	.....	GIEQ 8	Z	—	—	—	B
71953 Portable rock drills, and other power-operated nonelectric hand tools; and parts and attachments.	.....¹	CONS 8	XYZ	—	—	25	B
71953 Parts, accessories, and attachments for sawing, cutting, engraving, and other machines for working masonry or stone.	.....	CONS 8	XYZ	—	—	25	B
71954 Electronic closed loop control systems for machine tools in which a continuous feedback of information from the actual operation results in continuous correction of control commands, <i>excluding those control systems designed solely for positioning operations.</i> (See § 399.2, Interpretation 7.)	No.	TOOL 1	TVWXYZ	500	100	—	A
71954 Electronic closed loop control systems for machine tools, designed solely for positioning operations.	No.	TOOL 2	TVWXYZ	500	100	—	
71954 Broaching tools specially designed for the production of arms, munitions and implements of war.	.....	TOOL 1	TVWXYZ	500	—	—	A
71954 Broaching tools specially designed for production of jet engine blades and engine discs.	.....	TOOL 2	TVWXYZ	500	500	—	
71954 Other surface broaching tools.....	.....	TOOL 2	TVWXYZ	500	500	—	
71954 Grinding heads and spindle assemblies for grinding machines designed or rated for operation at speeds in excess of 120,000 r.p.m.	.....	TOOL 1	TVWXYZ	500	—	—	A
71954 Grinding heads and spindle assemblies for grinding machines designed or rated for operation at speeds from 80,000 r.p.m. up to and including 120,000 r.p.m.	TOOL 2	TVWXYZ	500	250	—	

¹ Report portable rock drills in "number."

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71954

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71954 Parts, accessories, and attachments specially designed for bomb nose and tail forging machines.	TOOL 1	TVWXYZ	500	—	—	A
71954 Parts, accessories and attachments specially designed for electron beam machines, <i>excluding equipment using the "sparking" technique.</i>	TOOL 1	TVWXYZ	500	—	—	A
71954 Parts, accessories and attachments specially designed for artillery molding and casting machines, <i>excluding centrifugal casting machines for casting tubes 6 feet long and over with wall thickness of 2 inches and over.</i>	TOOL 1	TVWXYZ	500	—	—	A
71954 Military type jigs, fixtures, and plate metalworking accessories; and specially designed parts.	TOOL 1	TVWXYZ	500	100	—	A
71954 Parts, accessories and attachments specially designed for other metalworking machines and machine tools (Export Control Commodity Nos. 71511 and 71514) which are subject to the Import Certificate/Delivery Verification procedure.	TOOL 1	TVWXYZ	500	500	—	A
71954 Hollow deep-hole drills.....	TOOL 2	TVWXYZ	500	500	—	
71954 Parts, accessories and attachments specially designed for flame cutting machines with tracer heads designed for or equipped with electronic closed loop control systems designed solely for positioning operations.	TOOL 2	TVWXYZ	500	500	—	
71954 Parts, accessories and attachments specially designed for other metalworking machines and machine tools (Export Control Commodity Nos. 71511 and 71514) requiring a validated license to all countries, except Canada, but not subject to the Import Certificate/Delivery Verification procedure.	TOOL 2	TVWXYZ	1,000	1,000	—	
71954 Parts, accessories, and attachments specially designed for spinforming machines with drive motors 15 up to and including 25 horsepower.	TOOL 2	VWXYZ	—	500	—	
71954 Parts, accessories, and attachments specially designed for other metalworking machines and machine tools (Export Control Commodity Nos. 71511 and 71514) requiring a validated license to all destinations except country group T destinations.	TOOL 2	VWXYZ	—	1,000	—	
71954 Other parts, accessories, and attachments for metalworking machines and machine tools, <i>excluding for single-spindle automatic chucking lathes and between-center lathes; and manually operated bench and floor types of metal polishing and buffing machines.</i>	TOOL 8	WXYZ	—	—	25	B
71954 Parts, accessories, and attachments for single-spindle automatic chucking lathes and between-center lathes.	TOOL 8	XYZ	—	—	25	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71954 Parts, accessories, and attachments for metal-polishing and buffing machines, manually operated bench and floor types.	.....	TOOL 8	Z	—	—	—	B
71954 Parts, accessories, and attachments for cutting machines for ceramics and similar nonmetallic materials, <i>excluding glass, quartz crystal, masonry or stone.</i>	.....	GIEQ 8	YZ	—	—	—	B
71954 Parts, accessories, and attachments for other machines for working asbestos-cement, ceramics, concrete, glass (in the hard state), quartz crystals, stone (including artificial precious and semiprecious stones), and similar mineral materials.	.....	GIEQ 8	XYZ	—	—	25	B
71954 Parts, accessories, and attachments for machines for working bone, ebonite, hard plastics, and other hard carving materials, <i>excluding wood and cork.</i>	.....	GIEQ 8	XYZ	—	—	25	B
71954 Parts, accessories, and attachments for sawmill machines and other woodworking machines (including machines for working cork).	.....	GIEQ 8	Z	—	—	—	B
71961 Calendering machines and similar rolling machines for textile machinery; and parts.	.....	GIEQ 8	YZ	—	—	—	B
71961 Other calendering machines and similar rolling machines n.e.c.; and parts.	.....	GIEQ 8	XYZ	—	—	25	B
71962 Dishwashing machines, household type; and parts.	.....	FINP 8	Z	—	—	—	B
71962 Dishwashing machines, commercial; and parts.	.....	GIEQ 8	Z	—	—	—	B
71962 Bottling machines, filling, labeling, washing, for dairy products; canning, wrapping, packaging, filling, and sealing machines, <i>except for tobacco.</i>	No.	GIEQ 8	Z	—	—	—	B
71962 Bottling machines (filling, labeling, washing) for food products, <i>excluding dairy products</i> ; tobacco packaging and wrapping machines; and parts for all bottling, canning, wrapping, packaging, filling, and sealing machines.	No.	GIEQ 8	Z	—	—	—	B
71963 Weighing machines, parts, and accessories (including coin-operated); <i>excluding lead scale weights.</i>	.....¹	FINP 8	Z	—	—	—	B
71963 Other scales, and parts and accessories, including lead scale weights.	.....¹	FINP 8	XYZ	—	—	25	B
Spraying machinery, sand and steam blasting machines, and fire extinguishers; and parts:							
71964 Foundry blast cleaning machines and other metal cleaning machines; and parts.	.....	TOOL 8	WXYZ	—	—	25	B
71964 Sprayers and dusters, agricultural and pesti- cidal, power and hand operated; and parts.	AGSU 8	YZ	—	—	—	B

¹ Report complete scales (assembled or unassembled) in "number."

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71964-71970

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71964 Paint spraying machines; and parts.....	GIEQ 8	Z	—	—	—	B
71964 Other industrial spraying equipment; and parts.	GIEQ 8	XYZ	—	—	25	B
71964 Chemical fire extinguishers; and parts.....	SATE 8	XYZ	—	—	25	B
71965 Automatic merchandising machines, mechanically refrigerated; and parts.	.....¹	GIEQ 8	Z	—	—	—	B
71965 Automatic merchandising machines, not mechanically refrigerated; and parts.	.....¹	FINP 8	Z	—	—	—	B
71966 Railway and tramway track fixtures and fittings.	STEE 8	YZ	—	—	—	B
71966 Railway and tramway mechanical signalling equipment; and parts.	CONS 8	XYZ	—	—	25	B
Ball, roller and needle-roller bearings, and parts:							
71970 Ball bearings and cylindrical roller bearings with inner bore diameter of 10 millimeters or less, having tolerances of BEC 5 or closer (for example, BEC 5, 7, or 9) and having either or both of the following characteristics: (a) rings, balls or rollers made from any material, excluding SAE 52100 steel, SAE 4615 steel, or low carbon steel containing 0.06 up to and including 0.18 percent carbon, or (b) designed for use at normal operating temperatures over 302°F. (150°C.) (specify tolerance); and specially designed parts. ²	GIEQ 5	TVWXYZ	500	100	—	A
71970 Ball and roller bearings specially designed for service at temperatures below minus 130°C; and specially designed parts.	GIEQ 5	TVWXYZ	500	100	—	A
71970 Ball bearings and cylindrical roller bearings, excluding separable ball bearings and thrust ball bearings, with inner bore diameter exceeding 10 millimeters, having tolerances of BEC 7 or closer and having either of the following characteristics: (a) rings, balls or rollers made from any material excluding SAE 52100 steel, SAE 4615 steel, or low carbon steel containing 0.06 up to and including 0.18 percent carbon, or (b) designed for use at normal operating temperatures over 302°F. (150°C) (specify tolerance); and specially designed parts. ²	GIEQ 1	TVWXYZ	500	100	—	A
71970 Other ball and cylindrical roller bearings having tolerances of BEC 5 or closer (specify tolerance); and specially designed parts. ²	GIEQ 2	TVWXYZ	500	100	—	E-9
71970 Tapered, spherical or thrust roller bearings with inner bore diameter above 400 millimeters (specify type and inner bore diameter); and specially designed parts.	GIEQ 2	TVWXYZ	500	100	—	E-9

¹ Report complete machines (assembled or unassembled) in "number."

² Tolerances based on standards as adopted by the Anti-Friction Bearing Manufacturers' Association. If the exporter does not know whether a shipment of bearings has these tolerances, the manufacturer of the bearings will be able to provide the information.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71970 Other ball and roller bearings, aircraft type; and specially designed parts.	GIEQ 2	TVWXYZ	500	100	—	E-2
71970 Other ball and roller bearings with inner bore diameter 10 mm. and under or 200 mm. and over; and specially designed parts.	GIEQ 8	WXYZ	—	—	25	B
71970 Other ball and roller bearings; and parts.	GIEQ 8	XYZ	—	—	25	B
71980 Concrete and bituminous pavers, finishers, and spreaders, and parts, <i>excluding concrete floor machines; buggies; concrete vibrators; and rotary finishers.</i>	CONS 8	XYZ	—	—	25	B
71980 Concrete floor machines; buggies; concrete vibrators; and rotary finishers; and parts.	CONS 8	YZ	—	—	—	B
71980 Electron beam equipment for the deposition of thin film, the coating of thin film, or the working thereof, <i>excluding equipment using the "spark-ing" technique; or continuous vacuum roll coating machines having a voltage not in excess of 20 kilovolts, having a fixed electron beam gun and no accurate control of the thickness of the deposited layer; and specially designed parts.</i>	GIEQ 1	TVWXYZ	500	—	—	A
71980 Metal finishing, cleaning, and coating machines, n.e.c.; and parts.....	TOOL 8	WXYZ	—	—	25	B
71980 Machines for applying insulating separators to the inner conductor of air spaced coaxial electric cable; and specially designed parts and accessories, n.e.c.	TOOL 1	TVWXYZ	500	500	—	A
71980 Machines for applying metal strip or sheet to form the outer conductor of coaxial electric cable; and specially designed parts and accessories, n.e.c.	TOOL 1	TVWXYZ	500	500	—	A
71980 Machines for forming, stranding, or assembling coaxial cable, with or without conductors other than coaxial tubes; and specially designed parts and accessories, n.e.c.	TOOL 1	TVWXYZ	500	500	—	A
71980 Machines for applying insulating material to conductors over 0.9 mm. in diameter of multipair electric telecommunication cables; and specially designed parts and accessories, n.e.c.	TOOL 1	TVWXYZ	500	500	—	A
71980 Machines for applying insulating material to conductors 0.9 mm. or less in diameter of multipair electric telecommunication cables; and specially designed parts and accessories, n.e.c.	TOOL 2	TVWXYZ	500	500	—	
71980 Machines for laying together conductors over 0.9 mm. in diameter for multipair telecommunication cables and/or applying insulating, separating, binding, or identifying material thereto; and specially designed parts and accessories, n.e.c.	TOOL 1	TVWXYZ	500	500	—	A

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71980

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71980 Machines for laying together conductors 0.9 mm. or less in diameter for multipair telecommunication cables and/or applying insulating, separating, binding, or identifying material thereto; and specially designed parts and accessories, n.e.c.	TOOL 2	TVWXYZ	500	500	—	
71980 Machines for laying together conductors over 0.9 mm. in diameter (pairs, quads, etc.) to form complete cable core or a part thereof; and specially designed parts and accessories, n.e.c.	TOOL 1	TVWXYZ	500	500	—	A
71980 Machines for laying together conductors 0.9 mm. or less in diameter (pairs, quads, etc.) to form complete cable core or a part thereof; and specially designed parts and accessories, n.e.c.	TOOL 2	TVWXYZ	500	500	—	
71980 Assembling jigs and fixtures for military equipment; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	—	—	A
71980 Automatic or semi-automatic manufacturing and assembling machines (specify by name), for the production of transistors and crystal diodes (including parts and sub-assemblies); and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Bullet and cartridge manufacturing machines, and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	500	—	A
71980 Cartridge and/or shell loading or filling machines, and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	500	—	A
71980 Equipment, n.e.c., for the production of military explosives or solid propellants (specify by name); and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Filament winding machines designed for or modified for the manufacture of rigid structural forms by precisely controlled tensioning and positioning of filament yarns, tapes, or rovings; and specially designed parts, controls, and accessories, n.e.c.	GIEQ 2	TVWXYZ	500	100	—	
71980 Equipment for the manufacture of semiconductor materials as follows: (a) equipment specially designed for the production or processing of dendritic forms of any semiconductor material or combination thereof, suitable for use in diodes or transistors, or (b) equipment specially designed or modified to be capable of purifying or processing one or more semiconductor materials, <i>excluding equipment specially designed for the zone purification of germanium</i> ; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	—	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71980 Equipment specially designed for the zone purification of germanium.	GIEQ 2	TVWXYZ	500	—	—	
71980 Powder cutting machines with feed rolls geared to rotating cutter blades, and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Shell shot automatic blasting machines, and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	500	—	A
71980 Specialized equipment, n.e.c., for the production of components and assemblies for electronic printed circuits (specify by name); and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	—	—	A
71980 Sweetie barrels, revolving type, 5 feet or more in maximum diameter; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Equipment specially designed for use in production of nitric acid of 98 percent or higher concentration, or for the concentration of nitrogen tetroxide and/or nitric oxides or mixtures thereof; and specially designed parts and accessories, n.e.c.	GIEQ 2	TVWXYZ	500	100	—	
71980 Continuous mixers for solid propellants; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Nitrators, continuous types, and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Processing vessels specially designed for use at temperatures below minus 130° C.; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Dehydration presses, double opposed hydraulic ram type and specially designed parts and accessories, n.e.c.	No.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Extrusion presses, hydraulic ram and closure type and specially designed parts and accessories, n.e.c.	No.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Other presses, power-driven, n.e.c., specially designed for the production of military explosives or solid propellants; and specially designed parts and accessories, n.e.c.	No.	GIEQ 1	TVWXYZ	500	100	—	A
71980 Vacuum metallizing machinery specially designed for the continuous coating of polyester dielectric film for condensers; and specially designed parts therefor.	GIEQ 1	TVWXYZ	500	—	—	A
71980 Nitrators, batch type, with capacity of 125 Imperial gallons or more; and specially designed parts and accessories, n.e.c.	GIEQ 8	WXYZ	—	—	25	B
71980 Fractionating columns having, or having provisions for, 25 or more trays; and specially designed parts and accessories, n.e.c.	GIEQ 8	WXYZ	—	—	25	B

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
<p>71980 Other processing vessels mixing or non-mixing (including fractionating columns), having all flow-contact surfaces made of or lined with any of the following materials, and specially designed parts and accessories, therefor: (a) 90 percent or more tantalum, titanium, or zirconium either separately or combined; (b) 50 percent or more cobalt, molybdenum, nickel or tungsten either separately or combined; (c) 13 percent or more silicon; (d) steel alloys containing any combination of chromium, with either or both molybdenum or tungsten in which the sum of the alloying elements exceeds 3 percent of the total; (e) 2.5 percent or more nickel; (f) fluoro and/or silico resins; (g) glass (acid-, heat-, or shock-resistant); (h) ceramics; (i) carbon; (j) graphite; or (k) acid/heat resistant cement.</p>	GIEQ 8	WXYZ	—	—	25	B
<p>71980 Other machines and mechanical appliances, the following only: abrasive circulators; abrasive coating machines; assembling fixtures, production, excluding those for production of military equipment; BRI (Basic Refractories Injection) guns; line-traveling coating and wrapping machines for pipes and tubes; Permanent Magnet Ferro Filters®; pipe line cleaning machines; waxing machines, industrial; welding rod brushing machines; and welding rod feeders.</p>	GIEQ 8	YZ	—	—	—	B
<p>71980 Industrial manufacturing and service-industries machines, n.e.c., and specially fabricated parts, n.e.c., the following only: boiler room specialty tools; briquetting presses; broom-making machines, excluding broom-sewing; brush-making machines; button covering machines; button making machines, n.e.c.; candle making machines; casket lowering devices; clay guns; cleaning machines, steam; cleaning units, sack; creosoting equipment, for wood products; fish reduction machines, for the manufacture of fish meal for animal feed; flame arrestors; floor finishers, industrial type; floor sanders, n.e.c., industrial type; floor scrubbing machines; floor surfacers, industrial type; fluorescent lamp disposal units; fumigation chambers; fur-blowing machines; fur-treating machines; garbage burners, industrial and commercial; garbage grinders, industrial and commercial; hat-blocking machines, n.e.c.; hat-making machines, n.e.c.; ice-crusher slingers; ice saw and</p>	GIEQ 8	Z	—	—	—	B

® Trademark registered in the Patent Office of the United States.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
drill machines, combination type, engine driven; incinerators, industrial and commercial; linoleum making machines; measureograph machines for measuring cloth; nutters; paint markers for marking pavement; pin ticketing machines (tag-to-product applying); reels, hose and cable, power operated; refrigerant charging apparatus, automatic; shoelace tipping machines; smoke generators, <i>excluding military</i> ; stone products manufacturing machines, n.e.c.; tank-cleaning machines; toothbrush manufacturing machines; tube cleaners; tube expanders, maintenance type; vacuum cleaners, industrial type; vibrating paper joggers; vibrators, hydraulic; wall-board plaster core machines; watch-cleaning machines; zipper manufacturing machines.							
71980 Other special industry machinery, n.e.c., including parts.	.....	GIEQ 8	XYZ	—	—	25	B
71991 Molding boxes and molds for artillery molding or casting.	No.	TOOL 1	TVWXYZ	500	—	—	A
71991 Other metal foundry boxes and molds, <i>excluding ingot molds</i> . [Report ingot molds in Export Control Commodity No. 71521.]	No.	TOOL 8	WXYZ	—	—	25	B
71991 Molds for metal powders, glass, mineral materials (for example, ceramic pastes, concrete or cement), or for rubber or artificial plastic materials.	No.	GIEQ 8	XYZ	—	—	25	B
Taps, cocks, valves and similar appliances, n.e.c.:							
71992 Valves, 1 inch or more in diameter, fitted with bellows seal, <i>and wholly made of or lined with aluminum, nickel, or alloy containing 60 percent or more nickel, excluding those having metal to metal seats</i> ; and specially designed parts. (Give full specifications.)	.....¹	GIEQ 1	TVWXYZ	500	100	—	A
71992 Valves, cocks, or pressure regulators designed to operate at temperatures below minus 170° C. (Minus 270° F); or with <i>all</i> flow contact surfaces <i>made of or lined with</i> any of the following materials: (a) 90 percent or more tantalum, titanium, or zirconium, either separately or combined, (b) 50 percent or more cobalt or molybdenum, either separately or combined, (c) polytetrafluoroethylene, or (d) polytrifluorochloroethylene; and specially designed parts. (Give full specifications.)	.....¹	GIEQ 1	TVWXYZ	500	100	—	A

¹ Report complete non-automatic valves (assembled or unassembled) in "pound," and automatic control valves in "number."

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71992 Other valves fitted with bellows seal, and wholly made of or lined with aluminum, nickel, or alloys containing 60 percent or more nickel; and specially designed parts. (Give full specifications.)	.....¹	GIEQ 2	TVWXYZ	500	100	—	E-9
71992 Other valves, cocks, or pressure regulators designed to operate at temperatures below minus 130° C. down to and including minus 170° C; or incorporating any of the following materials: (a) 90 percent or more tantalum, titanium, or zirconium, either separately or combined, or (b) 50 percent or more cobalt or molybdenum, either separately or combined; and specially designed parts. (Give full specifications.)	.....¹	GIEQ 2	TVWXYZ	500	100	—	E-9
71992 Valves specially designed for temporary stopping off or plugging a section of steel line pipe of a size greater than 19 inches o.d.; and specially designed parts.	.....¹	GIEQ 2	VWXYZ	—	100	—	E-9
71992 Other steel valves with inlet or outlet diameter 17 inches or greater and designed for a working pressure of over 300 psi; and specially designed parts.	.....¹	GIEQ 2	VWXYZ	—	100	—	E-9
71992 Mud valves, working pressure 600 psi or over specially designed for rotary drill (excluding core) rigs; and specially designed parts.	.....¹	CONS 6	VWXYZ	—	100	—	E-12
71992 Other taps, cocks, valves and similar appliances, n.e.c. and parts; excluding plumbing and heating valves.	.....¹	GIEQ 8	XYZ	—	—	25	B
71992 Plumbing and heating valves, and other plumbing fixture fittings; and parts.	.....²	FINP 8	Z	—	—	—	B
71993 Transmission shafts, cranks, bearing housings, and pulleys; and parts, excluding unmounted ball and roller bearings. [Report unmounted ball and roller bearings in Export Control Commodity No. 71970.]	.....³	GIEQ 8	XYZ	—	—	25	B
71994 Gaskets (joints) made of: polypyromellitimide, polybenzimidazole, or any fluorocarbon polymers and/or copolymers. (See § 399.2, Interpretation 22.)	.....	RESN 3	TVWXYZ	500	25	—	A E-3
71994 Gaskets (joints), laminated metal and polytetrafluoroethylene or polytrifluoroethoxyethylene.	.....	RESN 4	TVWXYZ	500	25	—	E-3
71994 Other gaskets (joints), laminated metal and nonmetal material, or set of gaskets of two or more materials.	.....	FINP 8	YZ	—	—	—	B
71999 Ships' propellers; and paddle-wheels for boats.	.....	CONS 8	XYZ	—	—	25	B

¹ Report complete non-automatic valves (assembled or unassembled) in "pound," and automatic control valves in "number."

² Report complete valves (assembled or unassembled) in "pound."

³ Report mounted ball and roller bearings, and plain bearings (mounted or unmounted) in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
71999 Machine parts, n.e.c., wholly made of fluoro-carbon polymers and/or copolymers. (See § 399.2, Interpretation 22.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
71999 Machine parts, n.e.c., made of polypyromellitimide or polybenzimidazole.	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
71999 Machine parts, n.e.c., partially made of polytetrafluoroethylene or polytrifluorochloroethylene. (Specify by name, and state weight of polytetrafluoroethylene or polytrifluorochloroethylene content.)	.....	RESN 4	TVWXYZ	500	25	—	E-3
71999 Other machine parts, n.e.c., wholly or chief value plastic.	.....	RESN 8	XYZ	—	—	25	B
71999 Machine parts, n.e.c., chief value rubber....	.....	RUBR 8	XYZ	—	—	25	B
71999 Machine parts, n.e.c., chief value non-ferrous metal.	.....	FINP 8	XYZ	—	—	25	B
71999 Machine parts, n.e.c., chief value iron or steel.	.....	STEE 8	YZ	—	—	—	B
71999 Machine parts, n.e.c., chief value textile material.	.....	TEXT 8	YZ	—	—	—	B
71999 Machine parts, n.e.c., chief value asbestos...	.....	FINP 8	YZ	—	—	—	B
71999 Machine parts, n.e.c., chief value leather or cork.	.....	TEXT 8	Z	—	—	—	B
71999 Other machine parts, n.e.c.....	.....	FINP 8	XYZ	—	—	25	B
ELECTRICAL MACHINERY, APPARATUS AND APPLIANCES							
Generators, motors, and rotary converters, and parts:							
72210 Synchronous motors of any horsepower rating possessing any of the following characteristics: (a) of size 30 (3 inches in diameter) and smaller having synchronous speeds in excess of 3,000 RPM, (b) designed to operate below minus 10° C. or above plus 55° C., (c) designed to operate from power sources of more than 400 cycles, or (d) of size 11 (1.1 inches in diameter) or smaller. (Specify by horsepower rating and model number.)	No.	ELME 1	TVWXYZ	500	—	—	A
72210 Electric motors over 1,000 horsepower, reversing type, liquid cooled and totally enclosed. (Specify by rating, A.C. or D.C.)	No.	ELME 1	TVWXYZ	500	—	—	A
72210 Other electric motors, n.e.c., of any rating, having synchronous speeds in excess of 3,000 rpm. (Specify model number of motor and horsepower.)	No.	ELME 2	TVWXYZ	500	—	—	
72210 Electric motors, any horsepower from 1 horsepower and up, specially designed for metal rolling mills included under Export Control Commodity No. 71522 and not identified by the symbol "B" in the last column of the Commodity Control List. (Specify horsepower and type of mill, A.C. or D.C.)	No.	ELME 2	VWXYZ	—	—	—	

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72210 Other electric motors, 12,500 horsepower and over. (Specify horsepower, A.C. or D.C.)	No.	ELME 8	WXYZ	—	—	25	B
72210 Parts and accessories specially designed for the motors under Export Control Commodity No. 72210 which are subject to the Import Certificate/Delivery Verification procedure. (Specify model number and characteristics of motor.)	.....	ELME 1	TVWXYZ	500	500	—	A
72210 Parts and accessories specially designed for the motors under Export Control Commodity No. 72210 which require a validated license to all destinations but are not subject to the Import Certificate/Delivery Verification procedure. (Specify model number and characteristics of motor.)	.....	ELME 2	TVWXYZ	500	500	—	
72210 Parts and accessories specially designed for the motors under Export Control Commodity No. 72210 for which a validated license is required to all destinations except Country Group T destinations. (Specify model number and characteristics of motor.)	.....	ELME 2	VWXYZ	—	500	—	
72210 Other parts and accessories for motors under Export Control Commodity No. 72210.	.....	Export controls applicable to commodities included in this entry are those which apply to the motor for which the parts and accessories are designed.					
72210 Generators and turbine-generator sets (turbo generators) specially designed for use with nuclear reactors. (Specify name, type and rating.)	No.	ELME 1	TVWXYZ	500	—	—	A
72210 Turbine generator sets specially designed for use with nuclear reactors. (Specify name, type, and rating.)	.....	ELME 1	TVWXYZ	500	—	—	A
72210 Electric power generating mobile units of 5,000 kilowatts or over. (Specify rating.)	No.	ELME 2	TVWXYZ	500	—	—	
72210 Generators and generator sets of 200,000 kilowatts or over. (Specify name, type, and rating.)	No.	ELME 2	VWXYZ	—	—	—	
72210 Other electric power generating units of ½ kilowatt or over.	No.	ELME 8	WXYZ	—	—	25	B
72210 Parts and accessories specially designed for nuclear reactor generators.	.....	ELME 1	TVWXYZ	500	500	—	A
72210 Parts and accessories specially designed for electric power generating mobile units of 5,000 kilowatts or over. (Specify by name and rating of primary equipment.)	.....	ELME 2	TVWXYZ	500	500	—	E-6
72210 Parts and accessories specially designed for generators and generator sets of 200,000 kilowatts or over. (Specify by name and rating.)	.....	ELME 2	VWXYZ	—	500	—	E-6
72210 Parts and accessories for other electric power generators and generator sets of ½ kilowatt or over.	ELME 8	WXYZ	—	—	25	B

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72210 Other generators, motors, and rotary converters; and parts. (Specify by name and rating.) Electric power machinery (excluding generators, motors, and rotary converters), and parts:	.....¹	ELME 8	XYZ	—	—	25	B
72210 Instrument transformers specially designed for the electrical and electronic characteristics, measuring and/or testing instruments included under Export Control Commodity No. 72953 which are subject to the Import Certificate/Delivery Verification Procedure. (Specify instrument.)	No.	ELME 1	TVWXYZ	500	100	—	A
72210 Electronic transformers, coils, reactors, and chokes designed for and/or capable of reliable performance in relation to their electrical and mechanical characteristics and maintaining their design service lifetime while operating over the whole range of ambient temperatures from below minus 45° C. to above plus 100° C., or at ambient temperatures of 200° C., or higher (specify by name and type number); and specially designed parts. (Specify by name.)	.....	RARA 1	TVWXYZ	500	100	—	A
72210 Pulse transformers specially designed for modulators capable of providing electrical impulses of peak power exceeding 200 kilowatts or of a duration of less than 0.1 microsecond, or a duty cycle in excess of 0.002 (specify by name and type number); and specially designed parts. (Specify by name.)	.....	RARA 1	TVWXYZ	500	100	—	A
72210 Other pulse transformers; and parts. (Specify by name and type number.)	.....	RARA 2	TVWXYZ	500	100	—	
72210 All other electronic transformers; and other coils, reactors, and chokes made of magnetic materials (specify by name and type numbers); and parts (specify by name).	.....	RARA 8	WXYZ	—	—	25	B
72210 Other coils, reactors, and chokes, n.e.c. (Specify by name and type number); and parts. (Specify by name.)	.....	RARA 8	XYZ	—	—	25	B
72210 Other electric power machinery (excluding generators, motors, and rotary converters); and parts. [Report generators, motors and rotary converters in Export Control Commodity No. 72210.] (Specify by name and rating.)	.....¹	ELME 8	XYZ	—	—	25	B
72210 Switchgear and switchboard apparatus, excluding telephone; and parts. (Report telephone switchboards in Export Control Commodity No. 72491.)	.....	ELME 8	YZ	—	—	—	B

¹ Report complete generators, motors and rotating converters (assembled or unassembled) in "number."² Report complete transformers, fluorescent ballast, current limiting reactors and other regulators (assembled or unassembled) in "number."

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List	
				T	V	X		
72220 Electronic resistors, including potentiometers, designed for and/or capable of reliable performance in relation to their electrical and mechanical characteristics and maintaining their designed service lifetime while operating over the whole range of ambient temperatures from below minus 45° C. to above plus 100° C., or at ambient temperatures of 200° C. or higher. (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	100	—	A	
72220 Potentiometers having any of the following characteristics, and special instruments rated to have the same characteristics: (a) Linear, having a constant resolution and a rated linearity of 0.1 percent or less, (b) Non-linear, having a variable resolution and a rated conformity of 1.0 percent or less, (c) Designed for gimbal mounting, or (d) Designed to operate below minus 55° C. or above plus 125° C. (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	100	—	A	
72220 Other potentiometers using only switched elements. (Specify by name and type number.)	No.	RARA 2	TVWXYZ	500	100	—		
72220 Other electronic resistors, n.e.c. (Specify by name and type number.)	No.	RARA 8	XYZ	—	—	25	B	
72220 Motor controls and accessories specially designed for the motors under Export Control Commodity No. 72210 which are subject to the Import Certificate/Delivery Verification procedure; and specially designed parts. (Specify by name and model number of motor.)	.....	ELME 1	TVWXYZ	500	500	—	A
72220 Motor controls and accessories specially designed for the motors under Export Control Commodity No. 72210 which require a validated license to all destinations but are not subject to the Import Certificate/Delivery Verification procedure; and specially designed parts. (Specify by name and model number of motor.)	.....	ELME 2	TVWXYZ	500	500	—	
72220 Motor controls and accessories specially designed for the motors under Export Control Commodity No. 72210 which require a validated license is required to all destinations except Country Group T destinations; and parts. (Specify by name and model number of motor.)	.....	ELME 2	VWXYZ	—	500	—	
72220 Other motor controls and accessories for motors under Export Control Commodity No. 72210; and parts.	Export controls applicable to commodities included in this entry are those which apply to the motor for which the controls and accessories are designed.						
72220 Lightning arrestors and choke coils, n.e.c.; and parts.	.....	ELME 8	YZ	—	—	—	B
72220 Current carrying wiring devices; and parts.	.....	FINP 8	Z	—	—	—	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72220 Other electrical apparatus for making, breaking and protecting electrical circuits; and parts. (Specify by name.)	.....	ELME 8	XYZ	—	—	25	B
72220 Fuses, dimmer switches, lighting switches and other electrical apparatus for making, breaking and protecting electrical circuits on automobiles, buses, motorcycles, tractors, trucks, and industrial engines.	.....	TRAN 8	WXYZ	—	—	25	B
Insulated wire and cable:							
72310 Wire and cable coated with, or insulated with, fluorocarbon polymers or copolymers (resins and elastomers). (Specify type of metal and insulation.) (See § 399.2, Interpretation 22.)	Lb.	NONF 9	TVWXYZ	500	100	—	A E-8
72310 Coaxial-type communications cable as follows: (a) containing fluorocarbon polymers or copolymers, (b) using a mineral insulator dielectric, (c) using a dielectric aired by discs, beads, spiral, screw, or any other means, (d) designed for pressurization or use with a gas dielectric, or (e) intended for submarine laying.	Lb.	NONF 9	TVWXYZ	500	100	—	A E-8
72310 Other coaxial cable.....	Lb.	NONF 10	TVWXYZ	500	100	—	E-8
72310 Communications cable containing more than one pair of conductors of which any one of the conductors, single or stranded, has a diameter exceeding 0.9 mm. (0.035 inch), as follows: (a) cable in which the nominal mutual capacitance of paired circuits is less than 53 nanofarads/mile (33 nanofarads/KM), <i>except conventional paper and air dielectric types</i> , (b) submarine cable, or (c) cable containing fluorocarbon polymers or copolymers. (See § 399.2, Interpretation 22.)	Lb.	NONF 9	TVWXYZ	500	100	—	A E-8
72310 Other communications cable containing more than one pair of conductors and containing any conductor, single or stranded, exceeding 0.9 mm. in diameter.	Lb.	NONF 10	TVWXYZ	500	100	—	E-8
72310 Insulated nickel and nickel alloy wire as follows: (a) insulated thermocouple nickel-chrome wire containing less than 95 percent nickel and within a diameter range of 0.2 mm. to 5 mm. both inclusive, or (b) other insulated nickel and nickel alloy wire containing 32 percent or more nickel, <i>excluding nickel-copper alloy wire containing not more than 6 percent of other alloying elements</i> . (Specify kind of wire or cable, give complete metal analysis, and type of insulation.)	Lb.	NONF 10	TVWXYZ	500	100	—	E-8
72310 Insulated columbium and columbium alloy wire.	Lb.	MINL 1	TVWYXZ	500	100	—	A E-8
72310 Insulated tungsten and tungsten alloy wire.	Lb.	MINL 2	TVWXYZ	500	100	—	E-8
72310 Other copper or copper-base alloy insulated wire and cable.	Lb.	NONF 8	WXYZ	—	—	25	B

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72310 Ignition harness and cable sets, aircraft type.	Lb.	TRAN 2	TVWXYZ	500	500	—	E-2
72310 Ignition harness and cable sets, automotive type.	Lb.	TRAN 8	WXYZ	—	—	25	B
72310 Appliance cords and other flexible cord sets.	Lb.	FINP 8	Z	—	—	—	B
72310 Other insulated wire and cable.....	Lb.	NONF 8	XYZ	—	—	25	B
72320 Electrical conduit, tubing, and joints, base metal, lined with insulating material.	Lb.	FINP 8	Z	—	—	—	B
Electrical insulators and fittings of insulating material:							
72320 Electrical insulators and fittings of rubber..	Lb.	RUBR 8	YZ	—	—	—	B
72320 Electrical insulators and fittings of ceramics and other clay products; or asbestos.	Lb.	FINP 8	YZ	—	—	—	B
72320 Glass electrical insulators.....	Lb.	FINP 8	YZ	—	—	—	B
72320 Electrical fittings of glass, <i>excluding insulators.</i>	Lb.	FINP 8	Z	—	—	—	B
72320 Electrical insulators and fittings of mica...	Lb.	MINL 8	Z	—	—	—	B
72320 Other electrical insulators and fittings of insulating material.	Lb.	FINP 8	XYZ	—	—	25	B
72410 Television broadcast receivers, whether or not combined with radio or phonograph, TV tuners, TV chassis and unassembled TV kits.	No.	RARA 8	YZ	—	—	—	B
72420 Radios, household type, including radio-phonograph combinations, radio turners, radio chassis, kits for assembly, and automobile radios, <i>excluding two-way radios.</i>	No.	RARA 8	Z	—	—	—	B
Electrical line telephone and telegraph equipment:							
72491 Telephone or telegraph equipment designed to provide secrecy facilities for analog and/or digital transmissions, <i>except voice transmission systems employing fixed frequency techniques in which the transposition changes do not occur more frequently than once every ten seconds</i> (specify by name and model number); and specialized components, parts and accessories, n.e.c., including key generators and tape mixers (specify by name).	.....	RARA 1	TVWXYZ	500	100	—	A
72491 Terminal and intermediate repeater or amplifier equipment designed to deliver, carry, or receive frequencies higher than 150 kilocycles, <i>except carrier communication terminal equipment specially designed for power lines operating at frequencies below 1,500 kilocycles</i> (specify by name and model number); and specialized components, parts, and accessories, n.e.c. (specify by name).	.....	RARA 1	TVWXYZ	500	100	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
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72491 Terminal and intermediate repeater or amplifier equipment as follows: (a) terminal and intermediate repeater or amplifier equipment designed to transmit, carry, or receive frequencies from higher than 16 kilocycles up to and including 150 kilocycles, and (b) terminal equipment specially designed for power lines and operating within the range of frequencies from 16 to 1,500 kilocycles (specify by name and model number); and specialized components, parts, and accessories, n.e.c. (specify by name).	RARA 2	TVWXYZ	500	100	—	
72491 Telegraph equipment, as follows: (a) equipment (machines), mechanical, electro-mechanical, or electronic, used to translate the information contained in written or printed text into electrical waveforms suitable for transmission over communication circuits at any speed greater than 500 words per minute or 375 bauds, whichever is less, (b) equipment designed to accept such electrical waveforms within the limits of (a) above and display the information from them in visible form, or (c) terminal equipment n.e.c., capable of transmitting and/or receiving digital data at a rate in excess of 2,000 bauds (bits per second) or at a rate (applicable to single channels or to each sub-channel in a multi-channel system) in bauds numerically in excess of 75 percent of the channel (or sub-channel) bandwidth in cycles per second (specify by name and model number); and specialized components, parts and accessories, n.e.c. (specify by name.)	RARA 1	TVWXYZ	500	100	—	A
72491 Single and multi-channel telegraph terminal transmitting and receiving equipment, <i>except the following equipment when such equipment is not designed for or capable of operation at a rate (for either the channel or any sub-channel in a multi-channel system) in bauds (bits per second) numerically greater than 60 percent of the channel (or sub-channel) band width in cycles per second: (i) equipment with a bandwidth per channel of not more than 240 cycles and with a rated speed of not more than 100 bauds (or 134 words per minute) per channel designed to CCIT standards, (ii) equipment used with telemetering, telecommand, and telesignalling equipment designed for industrial purposes in which the operational aggregate speed of the telegraph equipment is less than 1,200 bauds (bits per second), or (iii) time division mul-</i>	RARA 1	TVWXYZ	500	100	—	A

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<i>tiplex systems up to 6 channels with a maximum aggregate speed of 300 bauds and/or 72 words per minute per channel, and not containing an automatic error detection and correction system using a multiplex check (specify by name and model number); and specialized components, parts, and accessories, n.e.c. (Specify by name.)</i>							
72491 Other telegraph apparatus as follows: (a) suitable for use at speeds greater than 200 words per minute or 150 bauds, or (b) other multi-channel telegraph terminal transmitting and receiving equipment (specify by name and model number); and specialized components, parts and accessories, n.e.c.	.....	RARA 2	TVWXYZ	500	100	—	
72491 Other electrical line telephone and telegraph equipment, <i>excluding telephone instruments</i> ; and components, parts and accessories (specify by name and model number).	.....¹	RARA 8	XYZ	—	—	25	B
72491 Telephone instruments	No.	RARA 8	Z	—	—	—	B
72492 Telephone repeater equipment designed for frequencies higher than 150 kilocycles (specify by name and model number); and specialized components, parts, and accessories, n.e.c. (specify by name).	.....	RARA 1	TVWXYZ	500	100	—	A
72492 Telephone repeater equipment designed for frequencies from higher than 16 kilocycles up to and including 150 kilocycles (specify by name and model number); and specialized components, parts, and accessories, n.e.c. (specify by name).	.....	RARA 2	TVWXYZ	500	100	—	
72492 Other telephone repeater equipment (specify by name and model number); and components, parts, and accessories (specify by name).	.....	RARA 8	XYZ	—	—	25	B
72492 Microphones, <i>excluding general purpose microphones</i> ; audio frequency amplifiers; and public address systems; and parts.	.....	RARA 8	XYZ	—	—	25	B
72492 Loudspeakers; and general purpose microphones; and parts.	.....²	RARA 8	Z	—	—	—	B
Other telecommunications equipment (including radar), and parts:							
72499 Radio transmitters or transceivers, including transmitter amplifiers, having any of the following characteristics: (a) designed to operate at output carrier frequencies between 108 and 156 megacycles or greater than 235 megacycles, <i>except (i) equipment designed for search and rescue purposes where such equipment comprises an omnidirectional beacon and operates on a single crystal-</i>	.....	RARA 1	TVWXYZ	500	100	—	A

¹ Report telephone switchboards, telephone switching devices, and wire teleprinter units in "number."

² Report loudspeakers in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
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<p>controlled fixed frequency of 121.5 megacycles, (ii) television broadcasting transmitters and amplifiers therefor operating between 470 and 960 megacycles, (iii) frequency-modulated and amplitude-modulated communications equipment operating in the 420 to 470 megacycle band with a power output of not more than 25 watts for mobile units and 106 watts for fixed units, or (iv) amplitude-modulated radio-telephone equipment used for search and rescue work operating on a frequency of 243 megacycles with a carrier power not exceeding 100 milliwatts; (b) designed to provide any system of pulse modulation (this does not include amplitude, frequency, or phase modulated television or telegraphic transmitters); (c) rated for operation over a range of ambient temperatures extending from below minus 40° C. to above plus 55° C.; or (d) designed to provide a multiplicity of alternative output frequencies controlled by a lesser number of piezo-electric crystals, <i>except equipment in which the output frequency is selected only by manual operation either on the equipment or on a remote control unit and (i) those forming multiples of a common central frequency, or (ii) those in which the output frequency is a multiple of a common frequency which is not less than 1:1000 part of the oscillator frequency and is in steps of 1 kilocycle or greater.</i></p>							
<p>72499 Other transmitters or transceivers having any of the following characteristics: (a) more than 20 channels, (b) special facilities for interconnection with land line telephone circuits or switch boards, (c) frequency-modulated or amplitude-modulated communications equipment operating in the 420 to 470 megacycles band, with a power output of 25 watts or less for mobile units and 100 watts or less for fixed units, (d) amplitude-modulated radio-telephone equipment used for search and rescue work operating on a frequency of 243 megacycles with a carrier power of 100 milliwatts or less, (e) equipment designed for search and rescue purposes where such equipment comprises an omnidirectional beacon and operates on a single crystal controlled frequency of 121.5 megacycles, (f) designed for output frequencies from 223 megacycles up to and including 235 megacycles, (g) designed to provide a multiplicity</p>	RARA 2	TVWXYZ	500	100	—	

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of alternative output frequencies controlled by a lesser number of piezo-electric crystals, <i>except those forming multiples of a common control frequency</i> (specify by name and model number); and specially designed parts and accessories, n.e.c. (specify by name).							
72499 Radio (microwave) relay communications equipment designed for use at frequencies in excess of 300 megacycles, <i>excluding short-range and low-power television links for transmissions between the camera or studio and the television transmitter</i> (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Radio (microwave) relay communications equipment designed for frequencies of 300 megacycles and under (specify by name and model number); and specially designed parts and accessories, n.e.c. (specify by name).	RARA 2	TVWXYZ	500	100	—	
72499 Video tape recorders (specify by name and model number); and specially designed parts and accessories (specify by name). [Report videotape in Export Control Commodity No. 89120.]	RARA 1	TVWXYZ	500	100	—	A
72499 Communications equipment containing terminal or amplifier equipment designed to deliver, carry, or receive frequencies higher than 150 kilocycles, <i>excluding carrier communication terminal equipment specially designed for power lines operating at frequencies below 1,500 kilocycles</i> (specify by name and model number); and specialized components, parts, and accessories, n.e.c. (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Communications equipment containing terminal or amplifier equipment designed to transmit, carry or receive frequencies from higher than 16 kilocycles up to and including 150 kilocycles and carrier terminal equipment specially designed for power lines operating at frequencies below 1,500 kilocycles (specify by name and model number); and specialized components, parts and accessories, n.e.c. (specify by name).	RARA 2	TVWXYZ	500	100	—	
72499 Airborne communications equipment (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A

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				T	V	X	
72499 Communication, detection or tracking equipment of a kind using ultra-violet radiation, infrared radiation or ultrasonic waves (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Communication equipment employing tropospheric, ionospheric or meteoric scatter phenomena (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Equipment designed to provide secrecy facilities for analog and/or digital transmissions, excluding voice transmission systems employing fixed frequency inversions or fixed band scrambling techniques in which the transportation changes do not occur more frequently than once every ten seconds (specify by name and model number); and specially designed parts and accessories, n.e.c., including key generators and tape mixers (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Telecommunications Equipment N.E.C., specially designed for operation at temperatures below minus 130° C. (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Telemetry and telecontrol equipment suitable for use with aircraft or space vehicles (piloted or pilotless) (specify by name and model number); and specially designed parts and accessories (specify by name). ¹	RARA 1	TVWXYZ	500	100	—	A
72499 Panoramic radio receivers, automatic (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Airborne navigation equipment and direction finding equipment, including training or simulating equipment as follows: (a) designed to make use of Doppler frequency phenomena, (b) utilizing the constant velocity and/or the rectilinear propagation characteristics of electromagnetic waves having frequency less than 4 times 10 ¹⁴ cycles per second (0.75 micron), (c) pulse modulated radio altimeters, (d) frequency-modulated radio altimeters having an accuracy better than plus or minus 3 feet over the whole range between zero to 100 feet, or plus or minus 3 percent above 100 feet, (e) frequency-modulated radio altimeters which have been in normal civil use for less than four years, (f) direction finding equipment operating at frequencies greater than 5 megacycles.	RARA 1	TVWXYZ	500	100	—	A

¹ See Paragraph 370.5(a) for commodities which require export authorization from the Department of State.

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				T	V	X	
72499 Ground and marine equipment, including specialized training and simulating equipment, for use with airborne navigation equipment, utilizing the constant velocity and/or the rectilinear propagation characteristics of electromagnetic waves having a frequency less than 4 times 10 ¹⁴ cycles per second (0.75 micron) ¹ (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Ground and marine direction finding equipment, including specialized training and simulating equipment, designed to operate at frequencies greater than 5 megacycles (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Airborne radar equipment, including specialized training or simulating equipment, (specify by name and model number); and specially designed parts and accessories (specify by name).	RARA 1	TVWXYZ	500	100	—	A
72499 Ground and marine radar equipment, including specialized training or simulating equipment, having one or more of the following features: (a) Operating at a frequency not in normal civil use in the Western World, or at a frequency of more than 10,500 megacycles, (b) having a peak output power to the aerial system greater than 100 kilowatts, (c) having an 80 percent or better cumulative probability of detection of a 20 square meter target at a free space range of 50 nautical miles on an aircraft having an equivalent echoing area of 20 square meters, (d) utilizing other than pulse modulation with a constant pulse repetition frequency, (e) utilizing a Doppler technique for any purpose, other than MTI (moving target indicator) systems using a conventional double pulse delay line technique, (f) including signal processing techniques which have been in normal civilian use for a period of less than four years, or (g) having been in commercial use in the Western World for a period of less than 2 years (specify by name and model number); and specially designed parts and accessories. (Specify by name.)	RARA 1	TVWXYZ	500	100	—	A
72499 Pulse modulators capable of providing electric impulses of peak power exceeding 200 kilowatts or of a duration of less than 0.1 microsecond, or with a duty cycle in excess of 0.002; and specially fabricated parts and accessories, including pulse transformers, pulse-forming equipment and delay lines. (Specify by name.)	RARA 1	TVWXYZ	500	100	—	A

¹ See Paragraph 370.5(a) for commodities which require export authorization from the Department of State.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
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72499 Other ground and marine radar equipment, including specialized training or simulating equipment, <i>excluding those normal equipments designed for pulse operation at frequencies between 1,300 megacycles and 1,660 megacycles, 2,700 megacycles and 3,900 megacycles, or 8,500 megacycles and 10,000 megacycles, having in the case of marine radar, a peak output power to the aerial system of not greater than 75 kilowatts or, in the case of ground base radar, having a peak output power to the aerial system of not greater than 50 kilowatts and a range of not greater than 50 nautical miles (specify by name and model number); and specially designed parts and accessories, n.e.c. (specify by name).</i>	RARA 2	TVWXYZ	500	100	—	
72499 Other airborne electronic navigational and direction finding equipment, n.e.c., (specify by name and model number); and specially designed parts and accessories, n.e.c. (specify by name).	RARA 2	TVWXYZ	500	100	—	
72499 Radio and television broadcast equipment, <i>excluding radio and television broadcast audio equipment and television broadcast studio equipment;</i> and parts and accessories (specify by name.)	RARA 8	WXYZ	—	—	25	B
72499 Radio and television broadcast audio equipment; and television broadcast studio equipment, <i>excluding videotape recorders;</i> and parts and accessories (specify by name).	RARA 8	XYZ	—	—	25	B
72499 Amplifiers, oscillators, and related equipment, n.e.c., as follows: (a) amplifiers designed to operate at frequencies in excess of 500 megacycles; (b) tuned amplifiers having a bandwidth which exceeds 10 megacycles or 10 percent of the mean frequency, whichever is less, <i>excluding those specially designed for use in community television distribution systems;</i> (c) untuned amplifiers having a bandwidth which exceeds 10 megacycles; (d) D.C. amplifiers, amplifying by whatever means, having a noise level (referred to the input circuit of 10 ⁻¹⁶ watts or less and/or a zero drift in 1 hour corresponding to a change in input power of 10 ⁻¹⁶ watts or less; (e) parametric amplifiers with a noise figure of merit of 5 decibels or less measured at a temperature of 17° C.; (f) paramagnetic amplifiers; (g) other amplifiers or oscillator devices which amplify or oscillate by means of stimulated electromagnetic radiation (including but not limited to Masers, Lasers, & Irasers), and any equipment containing such amplifiers, oscillators or devices; and specially designed parts therefor.	RARA 1	TVWXYZ	500	100	—	A

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72499 Other amplifiers designed to operate at frequencies from 300 up to and including 500 megacycles (specify by name and model number); and specially fabricated parts and accessories, n.e.c. (specify by name); electromagnetic devices making use of gyromagnetic resonance phenomenon; and specially fabricated parts and accessories, n.e.c. (Specify by name and characteristics.)	RARA 2	TVWXYZ	500	100	—	
72499 Waveguides and components as follows: (a) rigid and flexible waveguides and components designed for use at frequencies over 12,500 megacycles; (b) waveguides having a bandwidth greater than 1.5:1; (c) waveguide components n.e.c. as follows: (i) directional couplers having a bandwidth ratio greater than 1.5:1 and directivity over the band of 15 decibels or more, (ii) rotary joints capable of transmitting more than one isolated channel or having a bandwidth greater than 5 percent of the center mean frequency, (iii) magnetic, including gyromagnetic, waveguide components; (d) pressurized waveguides and specialized components therefor; or (e) transverse electromagnetic (TEM) mode devices using magnetic, including gyromagnetic, properties. (Specify by name and type number.)	.....	RARA 1	TVWXYZ	500	100	—	A
72499 Ferrite waveguide components; and flexible waveguides and components designed for frequencies up to and including 12,500 megacycles. (Specify by name and type number.)	.....	RARA 2	TVWXYZ	500	100	—	
72499 Other waveguides and components of a kind used at frequencies exceeding 600 megacycles and articles of equipment incorporating or designed to be connected or to be incorporated into such waveguides.	.....	RARA 2	WXYZ	—	—	25	B
72499 Automobile radio receiver antennas.....	.....	RARA 8	YZ	—	—	—	B
72499 Carrying cases for portable radios; masks (television picture tube frame); screens (television picture tube protectors), <i>excluding glass</i> ; television antenna masts, tubular type (telescoping and stationary); and home-type television antennas, including rotor antennas.	.....	RARA 8	Z	—	—	—	B
72499 Other electronic telecommunications equipment, electronic navigational aids and electronic search and detection apparatus, including radar, n.e.c. (specify by name and model number); and parts and accessories, n.e.c. (Specify by name.)	.....	RARA 8	WXYZ	—	—	25	B
72501 Condensers for domestic refrigerators and food freezers.	No.	FINP 8	XYZ	—	—	25	B
72501 Domestic refrigerators and food freezers, electric; and parts, <i>excluding condensers</i>.	.....¹	FINP 8	Z	—	—	—	B

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
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72502 Domestic washing machines; and parts..... ²	FINP 8	Z	—	—	—	B
72503 Electro-mechanical appliances, n.e.c. (includes household type and those used in hotels, restaurants, hospitals, train kitchens, etc.) ³	FINP 8	Z	—	—	—	B
72504 Electric shavers and hair clippers; and parts, except blades and heads. [Report blades and heads for hairclippers and non-electric shavers in Export Control Commodity No. 69603.]	.....	FINP 8	Z	—	—	—	B
72505 Electron ovens; and specially designed parts.	.....⁴	FINP 8	YZ	—	—	—	B
72505 Electric household type domestic cooking equipment, and electro-thermic appliances; and parts.	.....⁵	FINP 8	Z	—	—	—	B
72610 Electro-medical apparatus .....	.....	SATE 8	Z	—	—	—	B
72610 Electro-medical and electro-therapeutic apparatus, <i>excluding X-ray</i> . [Report X-ray apparatus in Export Control Commodity No. 72620.]	.....	SATE 8	XYZ	—	—	25	B
72620 Flash discharge type X-ray tubes.....	.....	SATE 1	TVWXYZ	500	50	—	A
72620 X-ray machines having any of the following characteristics: (a) peak power exceeding 500 megawatts, (b) output voltage exceeding 500 kilovolts, (c) output current exceeding 1,500 amperes, or (d) pulse width of 0.2 microseconds or less; and specially fabricated parts and accessories, n.e.c.	.....	SATE 1	TVWXYZ	500	100	—	A
72620 Parts, specially designed for flash discharge type X-ray tubes.	.....	SATE 1	TVWXYZ	500	100	—	A
72620 Betatrons, X-ray producing.....	No.	SATE 2	TVWXYZ	500	—	—	
72620 Parts specially designed for X-ray producing betatrons.	.....	SATE 2	TVWXYZ	500	500	—	
72620 X-ray diffraction tubes and valves, X-ray diffraction units, X-ray goniometers, and X-ray powder cameras; and specially designed parts. (Specify by name.)	.....	SATE 8	WXYZ	—	—	25	B
72620 X-ray tubes and valves, medical and dental types only.	.....	SATE 8	Z	—	—	—	B
72620 Other X-ray apparatus, medical and industrial; and parts.	.....	SATE 8	XYZ	—	—	25	B
Primary batteries and cells, and parts:							
72911 Electro-chemical devices for the conversion of chemical energy to electrical energy, having either of the following characteristics: (a) primary cells possessing a means of activation and having an open circuit storage life in the unactivated condition, at a temperature of 21° C. (70° F.), of 10 years or more, or (b) primary cells capable of operating at temperatures from below minus 25° C. to above plus 55° C., including cells and cell assemblies (other than dry cells) possessing self-contained heaters; and specially designed parts therefor.	.....	ELME 1	TVWXYZ	500	—	—	A

¹ Report evaporators (replacement parts) in "number"; and report complete refrigerators and freezers in "number."
² Report complete washing machines in "number."
³ Report all appliances other than floor waxing and polishing machines and waste food disposers in "number."
⁴ Report complete ovens (assembled or unassembled) in "number."
⁵ Report complete cooking ranges, ovens, electric irons and heating appliances in "number."

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72911 Flashlight batteries; and parts.....	ELME 8	Z	—	—	—	B
72911 Other primary batteries and cells.....	ELME 8	YZ	—	—	—	B
72911 Parts for other primary batteries and cells.	.....	ELME 8	XYZ	—	—	25	B
Storage batteries, and parts:							
72912 Electro-chemical devices for the conversion of chemical energy to electrical energy, having either of the following characteristics: (a) fuel cells (including regenerative cells), i.e., cells for generating electric power, to which all the con- sumable components are supplied from outside the cell, or (b) electrically rechargeable cells, her- metically sealed, designed to have a leakage rate of 10 ⁻⁵ cc. per second of gas or less when tested under pressure differential of 2 atmospheres; and specially designed parts therefor.	.....¹	ELME 1	TVWXYZ	500	—	—	A
72912 Storage batteries, 6 and 12 volt, lead acid type.	No.	ELME 8	XYZ	—	—	25	B
72912 Other storage batteries, n.e.c.....	No.	ELME 8	XYZ	—	—	25	B
72912 Battery separators and blanks, wood.....	Thou- sand	FINP 8	XYZ	—	—	25	B
72912 Battery parts made of rubber.....	.....	RUBR 8	XYZ	—	—	25	B
72912 Battery parts made of lead or zinc.....	.....	NONF 8	Z	—	—	—	B
72912 Battery parts made of glass.....	.....	FINP 8	Z	—	—	—	B
72912 Other storage battery parts, n.e.c.....	.....	ELME 8	XYZ	—	—	25	B
Electric lamps (bulbs), and parts, excluding carbons and glass envelopes:							
72920 Flash discharge tubes specially designed for equipment providing amplification or oscillation by means of stimulated electromagnetic radiation, such as Masers, Lasers, or Irasers.	No.	FINP 5	TVWXYZ	500	—	—	A
72920 Single coil tungsten filaments.....	.....	FINP 4	TVWXYZ	500	100	—	E-6
72920 All filament lamps (bulbs) up to and includ- ing ¾ inch base; and filament bulbs over ¾ inch base, <i>the following only</i> : carbon filament; clear; frosted; incandescent; metal filament; photoflood; and projection. [Report sealed beam headlamps in Export Control Commodity No. 72942.]	No.	FINP 8	Z	—	—	—	B
72920 Other electric lamps (bulbs); and parts, ex- cept carbons and glass envelopes. [Report carbons in Export Control Commodity No. 72996; and glass envelopes in Export Control Commodity No. 66492.]	.....²	FINP 8	XYZ	—	—	25	B
Electron tubes (except X-ray), and parts:							
72930 Cathode ray tubes as follows: (a) with a resolving power of 500 lines or more per inch (20 lines per millimeter) using the shrinking raster	No.	RARA 1	TVWXYZ	500	50	—	A

¹ Report complete batteries (assembled or unassembled) in "number."
² Report lamps (bulbs) in "number."

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method of measurement, (b) with writing speeds of more than 3000 kilometers per second, (c) with 3 or more electron guns, <i>excluding 5-gun color television tubes designed for entertainment use</i> , or (d) alpha-numeric and similar data or information display tubes, <i>excluding those in which the displayed position of each character is fixed</i> . (Specify by name and type number.)							
72930 Image intensifiers, image converters and electronic storage tubes, including memory transformers of radar pictures and ruggedized vidicon tubes, <i>excluding commercial standard television broadcasting camera tubes</i> . (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 Photomultiplier tubes of all types for which the maximum sensitivity occurs at wavelengths longer than 7,500 angstrom units or shorter than 3,000 angstrom units. (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 Cold cathode tubes and switches as follows: (a) Triggered spark-gaps, having an anode delay time of 15 microseconds or less and rated for a peak current of 3,000 Amps or more; specially designed parts therefor, and equipment incorporating such devices; (b) Cold cathode, gas-filled, arc-discharge tubes, containing three or more electrodes and having all of the following characteristics: (i) Rated for an anode peak voltage of 2,500 volts or more, (ii) rated for peak currents of 300 amperes or more, (iii) an anode delay time of 10 microseconds or less, and (iv) an envelope diameter of less than 1 inch (25.4 mm). (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 Thyatron and modulator gas-discharge tubes as follows: (a) rated for continuous operation with peak current and peak voltage exceeding 100 amperes and 9000 volts at a pulse repetition frequency of 200 or more pulses per second, or (b) hydrogen thyratrons of any rating, <i>excluding types 4C35 and 3C45</i> . (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 TR and Anti-TR Tubes, <i>excluding those designed for use in wave guides operating at a peak power not exceeding 100 kilowatts and at frequencies between 1,300 and 1,660 megacycles, 2,700 and 3,900 megacycles, or 8,500 and 10,000 megacycles, provided such tubes do not include a control electrode permitting the control of the ionization by means of an external voltage</i> . (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72930 Electron tubes, as follows: (a) tubes rated for continuous wave operation over the frequency range of 300 to 1,000 megacycles for which (at any part of this frequency range and under any condition of cooling) the product of frequency of operation in megacycles squared and the power output in watts from the anode(s) of a single envelope at this frequency exceeds 10^9 when the tube is operating in Class C telegraphy key down conditions or in Class C FM telephony conditions or, if performance under these conditions is not known, the product of declared maximum frequency of full ratings in megacycles squared and the maximum rated anode dissipation per tube in watts exceeds 5 times 10^7 (when applying the above criteria to external anode tubes rated without a radiator, multiply the power rating by 20, and for external anode tubes rated with radiators and optimum cooling procedures, as recommended by the manufacturer, multiply the power rating by 2), (b) tubes rated for operation above 1,000 megacycles, (c) tubes rated for pulse operation above 300 megacycles, (d) tubes constructed with ceramic envelopes and rated for operation above 300 megacycles, (e) tubes, <i>excluding conventional types</i> , such as diodes, triodes, pentodes, etc., in which the velocity of the electrons is utilized as one of the functional parameters (including, but not limited to klystrons, travelling wave tubes and magnetrons, except fixed frequency pulsed magnetrons designed to operate at a frequency of 9,375 plus or minus 30 megacycles with a maximum peak output power not greater than 25 kilowatts), (f) indirectly heated tubes less than 0.283 inch in diameter, (g) tubes designed to withstand an acceleration of short duration (shock) greater than 1,000 g (accelerations under gravity), (h) tubes constructed with beryllium oxide ceramics, (i) tubes designed for operation in ambient temperatures above 100° C., or (j) vacuum tubes specially designed for use as pulse modulators for radar or for similar applications, having a peak anode voltage rating of 100 kilovolts or more, or rated for a peak pulse power of 2 megawatts or more. (Specify by type number.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 Phototubes with a peak sensitivity at a wavelength longer than 12,000 angstrom units or with a response time constant of 1 millisecond or less measured at the operating temperatures of the phototube for which the time constant reaches a maximum. (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72930 Photomultiplier tubes having all of the following characteristics: (a) dark current plus noise less than 5 times 10^{-14} amperes per square centimeter of active cathode surface, (b) sensitivity exceeding 65 microamperes per lumen, and (c) an over-all gain exceeding 100 million. (Specify by name and type number.)	No.	RARA 2	TVWXYZ	500	50	—	
72930 Color television picture tubes with three or more electron guns. (Specify by name and type number.)	No.	RARA 2	TVWXYZ	500	50	—	
72930 Other electron tubes, <i>excluding</i> (a) rectifier bulbs for automotive battery chargers, Geiger-Muller counter tubes, and proportional counter tubes; (b) types of photo tubes, photomultiplier tubes, and cathode ray tubes, <i>not included in another entry under Export Control Commodity No. 72930 which requires a validated license to all destinations (except Canada); and (c) excluding non-Military versions of the types described or listed in § 399.2, Interpretation 13.</i> (Specify by type number.)	No.	RARA 2	TVWXYZ	500	100	—	
72930 Electron tubes as follows: (a) rated for operation at frequencies between 250 and 1,000 megacycles, <i>excluding single-ended glass envelope standard 7-pin miniature or 9-pin noval base tubes having a basic tube type number consisting of a one or two-digit number followed by one or two letters, followed by a single digit (for example, 1S4, 6C4, 12X4, 12AU7)</i> , (b) indirectly heated tubes having a diameter from 0.283 through 0.5 inch, or (c) designed to withstand acceleration of 450g up to and including 1,000g. (Specify by name and type number.)	No.	RARA 8	WXYZ	—	—	25	B
72930 Other photo tubes and photomultiplier tubes; other cathode-ray tubes with screen afterglow longer than $\frac{1}{2}$ second; and non-ruggedized vidicon tubes. (Specify by name and type number.)	No.	RARA 8	WXYZ	—	—	25	B
72930 All other electron tubes. (Specify by name and type number.)	No.	RARA 8	XYZ	—	—	25	B
72930 Parts and accessories specially designed for the electron tubes under Export Control Commodity No. 72930 subject to the Import Certificate/Delivery Verification procedure. (Specify by name.)	.....	RARA 1	TVWXYZ	500	100	—	A
72930 Parts and accessories specially designed for the electron tubes under Export Control Commodity No. 72930 which require a validated license to all countries except Canada but are not subject to the Import Certificate/Delivery Verification procedure. (Specify by name.)	RARA 2	TVWXYZ	500	100	—	

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72930 Parts and accessories specially designed for the electron tubes under Export Control Commodity No. 72930 which require a validated license to all destinations except Country Groups T and V. (Specify by name.)	.....	RARA 8	WXYZ	—	—	25	B
72930 Other parts and accessories for electron tubes. (Specify by name.)	.....	RARA 8	XYZ	—	—	25	B
Solid state semi-conductor devices:							
72930 Photocells, as follows: (a) photoelectric cells, photo-conductive cells (including photo-transistors and similar cells) with a peak sensitivity at a wavelength longer than 12,000 angstrom units or shorter than 3,000 angstrom units, <i>excluding germanium photo devices with a peak response less than 17,500 angstrom units</i> ; or (b) photo-transistors and photo-diodes with a response time constant of 1 millisecond or less, measured at the operating temperature of the cell for which the time constant reaches a minimum. (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 Semiconductor devices for the direct conversion of solar energy to electrical energy (solar cells) as follows: (a) photo-voltaic cells with a power output of 8 milliwatts or more per square centimeter under 100 milliwatts per square centimeter tungsten (2800° K) illumination, or (b) all gallium arsenide photo-voltaic cells, <i>excluding those having a power output of less than 4 milliwatts measured by the technique employed in (a) above.</i>	No.	RARA 1	TVWXYZ	500	—	—	A
72930 Semiconductor diodes, as follows: (a) any semiconductor diode in which the bulk material is other than silicon, germanium, selenium, or copper-oxide; (b) signal diodes in which the bulk material is silicon or germanium (including mixer, frequency-changing and switching diodes) as follows: (i) point-contact type diodes designed for use at frequencies over 1,000 megacycles, or (ii) junction-type diodes designed for use at input frequencies greater than 300 megacycles or designed for switching rates (repetition frequency) higher than 1 megacycle; (c) power diodes in which the rated peak inverse voltage taken as a recurrent voltage exceeds 1,000 volts per junction at 25° C. under any conditions of cooling; (d) controlled diodes (i.e., those which operate similarly to grid controlled gas-filled tubes) designed for use at switching rates (repetition frequency) higher than 100 kilocycles; or (e) tunnel diodes. (Specify by type number.)	No.	RARA 1	TVWXYZ	500	50	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72930 Transistors and related devices (or related semiconductor amplifying devices such as field-effect transistors, spacitors, and technetrons) having <i>any</i> of the following characteristics: (a) having four or more active junctions within any single block of semiconductor material; (b) using a bulk semiconductor material other than germanium; or (c) using germanium as the bulk semiconductor material and having either of the following characteristics: (i) an average f alpha ¹ of 50 to 150 megacycles and designed to have a maximum collector dissipation ² greater than 150 milliwatts, or (ii) an average f alpha ¹ greater than 150 megacycles. (Specify by type number.)	No.	RARA 1	TVWXYZ	500	25	—	A
72930 Solid state semiconductor devices, specially designed for operation at ambient temperatures below minus 130° C. (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 Semiconductor devices, n.e.c., having junctions and/or combinations of junctions using thermo-electric materials with a maximum product of the figure of merit (Z) ³ and the temperature (T in °K) in excess of 0.75. (Specify by name and characteristics.)	No.	RARA 1	TVWXYZ	500	50	—	A
72930 Semiconductor devices constituting one or more functional circuits (including integrated circuits) with a component density greater than 75 parts per cubic inch (4.575 parts per cubic centimeter). (Specify by name and type number.)	No.	RARA 1	TVWXYZ	500	100	—	A
72390 Semiconductor Hall field probes, n.e.c., having any of the following characteristics: (a) Made of indium arsenide phosphide (In As P); (b) Coated with ceramic or ferritic materials (for example, special field probes, multipliers, modulators, recorder probes, etc.); or (c) With an open circuit sensitivity greater than 0.12 volts per ampere kilograms. (Specify by name and type.)	No.	RARA 1	TVWXYZ	—	500	—	A
72930 Other crystal diodes, <i>excluding</i> (a) germanium point contact diodes designed for operation at frequencies below 250 megacycles, (b) germanium junction diodes designed for operation at frequencies of 50 megacycles or less and not designed for switching speeds (repetition frequency) greater than 1 megacycle, (c) silicon regulator	No.	RARA 2	TVWXYZ	500	100	—	A

¹ The f alpha to be used is that measured in the common base (fab); and the average or typical value to be used. If no average or typical value is given, the value used should be taken as 15 times the minimum f alpha.

² The maximum collector dissipation is to be defined as the continuous dissipation measured at an ambient temperature of 25° C. under any cooling condition.

³ The figure of merit (Z) equals Seebeck coefficient squared divided by the product of electrical resistivity and thermal conductivity.

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
(zener) diodes, (d) silicon junction power diodes (not including radio frequency or switching diodes) having a peak inverse voltage of 1,000 volts per junction or less. (Specify by type number.)							
72930 Germanium photo devices with a peak response less than 17,500 angstrom units (1.75 microns). (Specify by name and type number.)	No.	RARA 2	TVWXYZ	500	100	—	
72930 Other transistors and solid state semiconductor devices, excluding types listed in § 399.2, Interpretation 18. (Specify by type number.)	No.	RARA 2	TVWXYZ	500	100	—	
72930 All other solid state semiconductor devices (including the transistors listed in § 399.2, Interpretation 18.) (Specify by type number.)	No.	RARA 8	WXYZ	—	—	25	B
72930 Parts specially designed for the solid state semiconductor devices under Export Control Commodity No. 72930 subject to the Import Certificate/Delivery Verification procedure. (Specify by name).	.....	RARA 1	TVWXYZ	500	25	—	A
72930 Parts specially designed for the solid state semiconductor devices under Export Control Commodity No. 72930 which require a validated license to all countries except Canada but are not subject to the Import Certificate/Delivery Verification procedure. (Specify by name.)	.....	RARA 2	TVWXYZ	500	100	—	
72930 Other parts for solid state semiconductor devices under Export Control Commodity No. 72930. (Specify by name.)	.....	RARA 8	WXYZ	—	—	25	B
Electrical starting and ignition equipment for internal combustion engines, and parts:							
72941 Twenty-four volt electrical systems with circuits shielded against radio interference, fungus decay, and water; and specially designed parts.	.....	TRAN 1	TVWXYZ	500	—	—	A
72941 Electrical starting and ignition equipment, n.e.c., aircraft type, and specially designed parts, excluding spark plugs. ¹	.....	TRAN 2	TVWXYZ	500	500	—	E-2
72941 Electrical starting and ignition equipment, automotive type, and specially designed parts, excluding spark plugs.	.....	TRAN 8	WXYZ	—	—	25	B
72941 Spark plugs (aircraft and automotive type) and other electrical starting and ignition equipment for internal combustion engines other than craft and automotive types.	.....²	TRAN 8	XYZ	—	—	25	B
72942 Motor vehicle sealed beam lights; and other motor vehicle lighting equipment, signalling equipment, electrical windshield wipers and defrosters; and parts therefor.	.....³	TRAN 8	WXYZ	—	—	25	B

¹ See paragraph 370.5(a) for commodities which require export authorization from the Department of State.

² Report complete cranking motors and spark plugs in "number."

³ Report sealed beam lamps in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72942 Sirens and hooters for motor vehicles; and parts.	.....	FINP 8	XYZ	—	—	25	B
72942 Lighting equipment and signalling equipment for motorcycles; and parts.	.....	TRAN 8	YZ	—	—	—	B
72942 Lighting equipment and signalling equipment for bicycles; and parts.	.....	FINP 8	Z	—	—	—	B
72951 Electricity supply meters. [Report parts under Export Control Commodity No. 86199.] Instruments or apparatus for measuring or checking electrical quantities or radiations. [Report parts under Export Control Commodity No. 86199]:	No.	ELME 8	XYZ	—	—	25	B
72952 Electronic measuring, testing or calibrating instruments having one or more of the following characteristics: (a) designed for use at frequencies in excess of 1,000 megacycles, or (b) testing instruments rated to maintain their specified operating data when operating over a range of ambient temperatures extending from below minus 25° C. to above plus 55° C. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Apparatus for automatically sorting electronic components in respect to their electrical characteristics. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Recording oscillographs used as readout units for telemetering and telecontrol equipment suitable for use with space vehicles or aircraft (piloted or pilotless).	No.	ELME 1	TVWXYZ	500	—	—	A
72952 Cathode ray oscilloscopes (oscillographs) possessing any of the following characteristics: (a) an amplifier bandwidth greater than 20 megacycles per second for DC-coupled scopes or greater than 30 megacycles per second for AC-coupled scopes (defined as the band of frequencies over which the deflection on the cathode ray tube does not fall below 70.7 percent of that at the maximum point measured with a constant input voltage to the amplifier); (b) a time base shorter than 40 nanoseconds per centimeter, including calibrated magnified sweep factor; (c) employing accelerating potentials in excess of 5,000 volts; (d) containing or designed for the use of a cathode ray tube with three or more electron guns; (e) containing or designed for use of (i) cathode ray memory tubes, or (ii) cathode ray tubes with travelling wave or distributed deflection structure or incorporating other techniques to minimize mismatch of fast phenomena signals to the deflection structure; (f) ruggedized to meet a military	No.	ELME 1	TVWXYZ	500	100	—	A

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
specification; (g) rated for operation over a range of ambient temperatures from below minus 25° C. to above plus 55° C.; (h) incorporating a calibrated variable sweep delay with an incremental accuracy (measured at the 90 percent delay point) of better than 3 percent; or (i) including any device which increases the capabilities of the oscilloscope to enable it to meet specifications (a) or (b) of this entry; or (j) having a rise-time of less than 12 nanoseconds. (Specify by name and model number.)							
72952 Electronic devices for stroboscopic analysis of a signal (i.e., sampling devices), whether sub-assemblies or separate units, designed to be used in conjunction with an oscilloscope to permit the analysis of recurring phenomena, which increase the capabilities of an oscilloscope to: (a) permit measurements above 20 megacycles per second, or (b) to permit the achieving in an oscilloscope of a time-base shorter than 40 nanoseconds (0.04 microseconds) per centimeter. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Other cathode ray oscilloscopes (oscillographs) possessing any of the following characteristics: (a) an amplifier bandwidth greater than 12 megacycles per second, (b) a time base less than 0.04 microseconds per centimeter, (c) containing or designed for use of three or more cathode ray tubes, or (d) including any device which increases the capabilities of the oscilloscope to enable it to meet specifications (a) or (b) of this entry. (Specify by name and model number.)	No.	ELME 2	TVWXYZ	500	100	—	
72952 Other cathode ray oscilloscopes (oscillographs) possessing any of the following characteristics: (a) a bandwidth greater than 5 megacycles (defined as the band of frequencies over which the loss does not exceed 3 decibels), or (b) a time base shorter than 0.05 microseconds per centimeter.	No.	ELME 8	WXYZ	—	—	25	B
72952 Other electronic devices for stroboscopic analysis of a signal (i.e., sampling devices), whether subassemblies or separate units designed to be used in conjunction with an oscilloscope to permit the analysis of recurring phenomena which increase the capabilities of an oscilloscope to permit measurement above 15, up to and including 20, megacycles per second. (Specify by name and model number.)	No.	ELME 2	TVWXYZ	500	100	—	

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72952 Magnetometers, including gaussmeters, of the following types: (a) fluxgate, (b) electron-beam sensing, (c) paramagnetic, ¹ (d) nucleonic, (e) Hall Effect, <i>excluding magnetometers which use general purpose Hall-Field probes to measure magnetic fields greater than one oersted using control current between 100 and 400 milliamperes.</i> (Specify by name.) [Report geophysical magnetometers in Export Control Commodity No. 72954.]	No.	ELME 1	TVWXYZ	500	—	—	A
72952 Radio spectrum analyzers possessing any of the following characteristics: (a) designed to operate at frequencies exceeding 1,000 megacycles, (b) designed to operate at frequencies over 300 megacycles and using interchangeable heads and incorporating integral sweep facilities, or (c) having a display bandwidth in excess of 12 megacycles. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Measuring, calibrating, counting, and time interval measuring equipment whether or not incorporating frequency standards, having one or more of the following characteristics: (a) consisting of, or containing frequency measuring equipment or frequency standards designed for other than ground laboratory use with an accuracy better than 1 part in 10 ⁶ ; (b) consisting of, or containing, ground laboratory or frequency measuring equipment incorporating frequency standards with a stability over 24 hours of 1 part in 10 ⁶ or better, (c) designed for use at frequencies in excess of 1,000 megacycles; (d) designed to provide a multiplicity of alternative output frequencies controlled by a lesser number of piezo-electric crystals or an internal or external frequency standard, <i>excluding equipment in which the output frequency is selected only by manual operation either on the equipment or on a remote control unit and (i) those forming multiples of a common control frequency, or (ii) those in which the output frequency is a multiple of a common frequency which is not less than 1:1,000 part of the oscillator frequency and is in steps of 1 kilocycle or greater;</i> (e) counting equipment capable of resolving at normal input levels successive input signals with less than 0.1 microsecond time difference; and (f) time interval measuring equipment containing counting equipment as specified in part (e) above. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A

¹ The term "paramagnetic" as used in this entry refers to the sensing of changes in magnetic field strength by measurement of the effects of such changes in the electron spin phenomena.

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72952 Frequency measuring and indicating instruments with any of the following characteristics: (a) operating at frequencies from 300 up to and including 1,000 megacycles, (b) having an accuracy better than 0.00001 percent, (c) capable of resolving (at normal input levels) successive input signals with less than 0.5 microsecond time difference (including time interval measuring equipment containing such counters), and (d) containing frequency synthesizers employing other crystal saving techniques. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Instruments specially designed for (a) testing communications equipment employing tropospheric, ionospheric or meteoric scatter phenomena, (b) testing telemetering and telecontrol equipment suitable for use with space vehicles or aircraft, or (c) for use in the production of electronic valves, transistors and crystal diodes.	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Instruments designed for testing the following equipment of the types under Export Control Commodity No. 72998 which are subject to the Import Certificate/Delivery Verification procedure: (a) synchros and resolvers and other instruments which perform functions similar to synchros and resolvers, (b) electronic or magnetic amplifiers, (c) induction rate (tachometer) generators, (d) servo-motors, (e) torque motors, (f) synchronous motors, (g) ball-and-disc or cylinder-and-ball mechanical integrators, or mechanical ball resolvers, analogue-to-digital and digital-to-analogue converters, and (h) semiconductor Hall field probes.	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Instruments designed for testing the types of potentiometers and other instruments rated to have the same characteristics under Export Control Commodity No. 72224 which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Instruments designed for testing the radar equipment and the airborne direction finding equipment, airborne navigational apparatus and flight instruments under Export Control Commodity No. 72499 which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Instruments designed for testing the types of electric arc devices under Export Control Commodity No. 72992 which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72952 Instruments designed for testing ball-and-disc or cylinder-and-ball mechanical integrators, mechanical ball resolvers, and electro-optical devices designed to monitor relative rotation of remote surfaces. (See Export Control Commodity No. 86191).	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Waveform analyzing and/or testing instruments operating at frequencies of 300 megacycles per second or less. (Specify by name and model number.)	No.	ELME 8	WXYZ	—	—	25	B
72952 Radio testing instruments or apparatus, n.e.c.; digital voltmeters; and electrometers capable of measuring currents smaller than 0.01 microamperes.	No.	ELME 8	WXYZ	—	—	25	B
72952 Other instruments or apparatus for measuring or checking electrical quantities.	No.	ELME 8	XYZ	—	—	25	B
72952 Personal nuclear radiation monitoring instruments enabling direct reading on a graduated scale as follows: (a) dosimeters, where more than one fourth of the total single exposure range falls between 15 and 500 roentgens, or (b) dose rate meters, where more than one fourth of the total range falls between 1 and 80 roentgens per hour, <i>excluding dosimeters and dose rate meters specially designed for use with medical radiation equipment.</i>	No.	SATE 1	TVWXYZ	500	25	—	A
72952 Nuclear radiation dosimeters capable of measuring dosages between 5 and 15 or over 500 roentgens in one exposure.	No.	SATE 2	TVWXYZ	500	100	—	
72952 Other nuclear radiation dosimeters capable of measuring dosages above 5 roentgens in one exposure.	No.	SATE 2	TVWXYZ	500	25	—	
72952 Nuclear radiation detection and measuring instruments specially designed for operation at temperatures below minus 130° C.	No.	SATE 1	TVWXYZ	500	100	—	A
72952 Other nuclear radiation detection and measuring instruments and apparatus. Instruments for indicating, measuring, testing, inspecting, or controlling nonelectrical quantities by means of an electric phenomenon. [Report parts under Export Control Commodity No. 86199]:	No.	SATE 8	XYZ	—	—	25	B
72952 Underwater detection apparatus, <i>excluding marine depth sounders of a kind used solely for measuring the depth of water or the distance of submerged objects vertically below the apparatus.</i> (Specify by name and model number.) [Report parts under Export Control Commodity No. 86111.]	No.	RARA 1	TVWXYZ	500	100	—	A

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72952 Other underwater detection apparatus, n.e.c. (Specify by name and model number.) [Report parts under Export Control Commodity No. 86111].	No.	RARA 8	WXYZ	—	—	25	B
72952 Combination balancing and correcting machines designed for or equipped with electronic closed loop control systems in which a continuous feedback of information from the actual operation results in continuous correction of control commands, <i>excluding those control systems designed solely for positioning operations.</i> (See § 399.2, Interpretation 7.)	No.	TOOL 9	TVWXYZ	500	—	—	A
72952 Combination balancing and correcting machines designed for or equipped with electronic closed loop control systems designed solely for positioning operations. (See § 399.2, Interpretation 7.)	No.	TOOL 2	TVWXYZ	500	—	—	
72952 Other balancing machines or balancing and correcting machines for balancing metal parts statically, dynamically or both.	No.	TOOL 8	WXYZ	—	—	25	B
72952 Electronic closed loop control systems for machine tools, in which a continuous feedback of information from the actual operation results in continuous correction of control commands, <i>excluding those control systems designed solely for positioning operations.</i> (See § 399.2, Interpretation 7.)	No.	TOOL 1	TVWXYZ	500	100	—	A
72952 Electronic closed loop control systems for machine tools, designed solely for positioning operations.	No.	TOOL 2	TVWXYZ	500	100	—	
72952 Other electronic industrial process control systems. (Specify by name.)	No.	GIEQ 2	TVWXYZ	500	100	—	
72952 Magnetometers of the following types: (a) fluxgate, (b) electron beam sensing, (c) paramagnetic, ¹ (d) nucleonic, and (e) Hall effect, <i>excluding those which use general purpose Hall field probes to measure magnetic fields greater than one oersted using control current between 100 and 400 milliamperes; and specially designed parts.</i> (Specify by name.)	.....²	CONS 1	TVWXYZ	500	—	—	A
72952 Well-logging instruments; and parts, n.e.c. (Specify by name.)	.....²	CONS 2	TVWXYZ	500	100	—	E-12
72952 Other seismic or seismograph instruments, except observatory type; and parts, n.e.c. (Specify by name.)	No.	CONS 2	TVWXYZ	500	100	—	
72952 Other geophysical and mineral prospecting instruments; and parts, n.e.c. [Report gravity meters in Export Control Commodity No. 86191.]	No.	CONS 8	XYZ	—	—	25	B

¹ The term "paramagnetic" as used in this entry refers to the sensing of changes in magnetic field strength by measurement of the effects of such changes in the electron spin phenomena.
² Report complete instruments in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72952 Instruments designed for measuring and checking gas turbine blades.	No.	TOOL 1	TVWXYZ	500	100	—	A
72952 Other size measuring instruments.....	No.	TOOL 8	WXYZ	—	—	25	B
72952 Automatic equipment for controlling diameter or the concentricity of extruded dielectric on wires and cables.	No.	GIEQ 1	TVWXYZ	500	100	—	A
72952 Fluid stream analyzers.....	No.	GIEQ 2	TVWXYZ	500	100	—	
72952 Process control instruments specially designed or modified for controlling the processing of irradiated fissionable or fertile materials and lithium.	No.	GIEQ 1	TVWXYZ	500	100	—	A
72952 Instruments or devices capable of controlling the dimensions of a rolled product during its production. (Specify by name.)	No.	GIEQ 2	TVWXYZ	500	100	—	
72952 Vacuum gauges, ionization type, designed for use with ion vacuum pumps having pumping speeds of 800 or more liters of hydrogen per second at pressures of 10 ⁻⁶ mm. Hg or more.	No.	GIEQ 1	TVWXYZ	500	—	—	A
72952 Other vacuum gauges, ionization type.....	No.	GIEQ 2	TVWXYZ	500	—	—	
72952 Very high precision accelerometers and miniaturized accelerometers designed for use in inertial navigation systems or in guidance systems. (Specify by name and model or type number.)	No.	SATE 1	TVWXYZ	500	100	—	A
72952 Centrifugal-action testing equipment. (Specify by name.)	No.	GIEQ 1	TVWXYZ	500	100	—	A
72952 Gear testers designed for the testing of gears of diametral pitch finer than 48. (See § 399.2, Interpretation 3.)	No.	TOOL 1	TVWXYZ	500	100	—	A
72952 Testing devices specially designed for testing electronic assemblies produced by: (a) depositing or printing on insulating panels, plates, or wafers or by otherwise forming "in situ" component parts other than basic wiring, or (b) automatically inserting and/or soldering components on insulating panels, plates, or wafers to which wiring is applied by printing or other means.	No.	GIEQ 1	TVWXYZ	500	—	—	A
72952 Testing equipment specially designed for use in the manufacture and assembly of communication, navigation, direction-finding, and radar equipment.	No.	GIEQ 1	TVWXYZ	500	—	—	A
72952 Testing and inspecting machines specially designed for the examination, testing and checking of arms, munitions, and implements of war.	No.	GIEQ 1	TVWXYZ	500	—	—	A
72952 Vibration testing equipment capable of providing a thrust greater than 2,000 lbs.	No.	GIEQ 1	TVWXYZ	500	500	—	A

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72952 Testing and inspecting equipment specially designed for use in the production of types of electronic tubes, transistors, and crystal diodes or parts and components therefor included under Export Control Commodity No. 72930 which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name.)	No.	GIEQ 1	TVWXYZ	500	—	—	A
72952 Other testing and inspecting equipment specially designed for use in the production of electronic tubes, transistors and crystal diodes or parts and components therefor. (Specify by name.)	No.	GIEQ 2	TVWXYZ	500	—	—	
72952 Other industrial process indicating, recording, and/or controlling instruments containing one or more electronic components (incorporating one or more electronic tubes or transistors), excluding large case potentiometric instruments (that is, those with one face dimension 6 inches or larger). (Specify by name.)	No.	GIEQ 2	TVWXYZ	500	500	—	E-9
72952 Test benches, electrical, for automotive engines, brakes, pumps and speedometers.	No.	TRAN 8	XYZ	—	—	25	B
72952 Refrigerator defrosting clocks.....	No.	GIEQ 8	Z	—	—	—	B
72952 Chronographs and chronoscopes, nonrecording.	No.	FINP 8	Z	—	—	—	B
72952 Chronographs and chronoscopes, recording..	No.	FINP 8	XYZ	—	—	25	B
72952 Time interval measuring equipment containing counting equipment capable of resolving at normal input levels successive input signals, with less than 0.5 microsecond time difference. (Specify by name and model number.)	No.	ELME 1	TVWXYZ	500	100	—	A
72952 Other time interval measuring equipment having one or both of the following characteristics: (a) capable of measuring time intervals of 0.1 second or less with an error not exceeding 1 microsecond plus 0.001 percent of the interval measured, (b) incorporating counting circuits capable of counting at rates in excess of 1 megacycle per second. (Specify by name and model number.)	No.	ELME 2	TVWXYZ	500	100	—	
72952 Electronic automatic controlling units, laboratory type, designed to regulate the flow by continuous action as a function of one or more process variables and capable of operating a regulating valve in response to a voltage produced by a measuring unit in the process stream. (Specify by name.)	No.	GIEQ 2	TVWXYZ	500	100	—	
72952 Mass spectrographs and mass spectrometers, as follows: (a) all multifocus types (including double focus, tandem and cyclodial); or (b) single focus types possessing a radius of curvature of 5 inches or more. (Specify by name, model and number.)	No.	SATE 1	TVWXYZ	500	—	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72952 Other mass spectrographs and mass spectrometers, <i>excluding mass spectrometer type leak detectors.</i> (Specify by name and model number.)	No.	SATE 2	TVWXYZ	500	—	—	
72952 Electro-optical instruments designed to monitor rotation of remote surfaces.	No.	SATE 1	TVWXYZ	500	100	—	A
72952 Electrophotometers, spectrographs, spectrophotometers, densitometers, microphotometers, and other spectrum measuring instruments, optical.	No.	SATE 8	WXYZ	—	—	25	B
72952 Research laboratory cryogenic instruments and apparatus, electrical, magnetic or electronic, specially designed for operation continuously or discontinuously at ambient temperatures below minus 130° C. (minus 202° F.).	No.	SATE 1	TVWXYZ	500	100	—	A
72952 Other research laboratory instruments and apparatus capable of maintaining an ambient temperature below minus 130° C. (Specify by name.)	No.	SATE 2	TVWXYZ	500	100	—	
72952 Other laboratory and scientific instruments for indicating, measuring, testing, inspecting, or controlling nonelectrical quantities by means of an electric phenomenon.	No.	SATE 8	XYZ	—	—	25	B
72952 Other instruments for indicating, measuring, testing, inspecting, or controlling nonelectrical quantities by means of an electric phenomenon.	No.	GIEQ 8	XYZ	—	—	25	B
72952 Other electronic industrial process control systems, n.e.c.	No.	GIEQ 2	TVWXYZ	500	100	—	
72960 Concrete vibrators, electric; and parts.....	.....	CONS 8	YZ	—	—	—	B
72960 Other electromechanical hand tools; and parts.	.....¹	ELME 8	XYZ	—	—	25	B
Electron and proton accelerators:							
72970 Belt-type electro-static generators (Van De Graaff® machines).	No.	ELME 2	TVWXYZ	500	—	—	
72970 Parts and accessories specially designed for belt-type electro-static generators (Van De Graaff® machines).	.....	ELME 2	TVWXYZ	500	500	—	E-6
72970 Accelerators, the following: (a) betatrons, synchrotrons, cyclotrons, synchrocyclotrons, and linear accelerators, (b) neutron generators employing the electrostatic acceleration of ions, and (c) other electronuclear machines capable of imparting energies in excess of 1,000,000 electron volts to a nuclear particle or an ion.	No.	SATE 2	TVWXYZ	500	—	—	
72970 Neutron generator tubes designed for operation without external vacuum system, and utilizing electrostatic acceleration to induce a tritium deuterium nuclear reaction.	No.	SATE 1	TVWXYZ	500	—	—	A
72970 Magnets and other specialized parts, n.e.c., specially designed for electronuclear machines capable of imparting energies in excess of 1,000,000 electron volts to a nuclear particle or ion.	.....	SATE 2	TVWXYZ	500	25	—	

¹ Report electric drills, mining and construction, in "number."
 ® Trademark registered in the Patent Office of the United States.

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72970 Other parts and accessories specially designed for betatrons, synchrotrons, cyclotrons, synchrocyclotrons, neutron generators employing the electrostatic acceleration of ions, and other linear accelerators.	.....	SATE 2	TVWXYZ	500	500	—	
72970 Other electron and proton accelerators; and parts and accessories.	.....¹	SATE 8	XYZ	—	—	25	B
72991 Magnets specially designed for electro-nuclear machines capable of imparting energies in excess of 1,000,000 electron volts to a nuclear particle or an ion.	.....	SATE 2	TVWXYZ	500	25	—	
72991 Electro-magnetic and permanent magnet chucks, clamps, vices and similar work holders, specially designed for metalworking machines and machine tools (Export Control Commodity Nos. 71511 and 71514) which are subject to the Import Certificate/Delivery Verification procedure.	.....	TOOL 1	TVWXYZ	500	500	—	A
72991 Electro-magnetic and permanent magnet chucks, clamps, vices and similar work holders, specially designed for metalworking machines and machine tools (Export Control Commodity Nos. 71511 and 71514) requiring a validated license to all countries, except Canada, but not subject to the Import Certificate/Delivery Verification procedure.	.....	TOOL 2	TVWXYZ	1,000	1,000	—	
72991 Other electro-magnetic and permanent magnet chucks, clamps, vices and similar work holders for metalworking machines and machine tools.	.....	TOOL 8	WXYZ	—	—	25	B
72991 Other electro-magnetic appliances; electro-magnets; and permanent magnets.	.....²	FINP 8	XYZ	—	—	25	B
Electric furnaces, industrial electric induction and dielectric heating equipment, n.e.c.; and parts; electric welding machines, parts, and accessories:							
72992 Induction hardening machines for tank turret rings and sprockets; and furnaces, welding apparatus and other equipment specially designed for the production of arms, munitions, or implements of war. ⁴ (Specify by name, type and characteristics.)	.....³	ELME 1	TVWXYZ	500	—	—	A
72992 Electric vacuum furnaces as follows: (a) consumable electrode vacuum arc furnaces with a capacity in excess of 5 tons, (b) skull type vacuum arc furnaces, (c) electron beam vacuum furnaces, (d) resistance vacuum furnaces designed to operate at temperatures higher than 1650° C. (3002°	No.	ELME 1	TVWXYZ	500	—	—	A

¹ Report complete machines (assembled or unassembled) in "number."

² Report permanent magnets in "pound."

³ Report complete furnaces, ovens, heating units and welders (assembled or unassembled) in "number."

⁴ Arms, munitions and implements of war are all items designated in paragraph 370.5(a), Categories I through XVI.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
<p>F.), excluding furnaces up to 3200 cubic centimeters designed for temperatures not higher than 2300° C. (4172° F.), (e) cold crucible vacuum induction furnaces designed to operate at pressures lower than 0.1 millimeter of mercury and at temperatures higher than 1100° C. (2012° F.), or (f) vacuum induction furnaces other than cold crucible, designed to operate at temperatures higher than 1650° C. (3002° F.), excluding furnaces with a work piece space of 13,000 cubic centimeters or less and designed to operate not higher than 1900° C. (3452° F.), and furnaces with a work piece space of 3200 cubic centimeters or less with no single dimension (length, width, height or diameter) of that space in excess of 10 inches and designed to operate at temperatures not higher than 2300° C. (4172° F.) (Specify by name and characteristics.)</p>							
72992 Electric industrial melting and refining furnaces specially designed or modified to be capable of purifying or processing one or more semiconductor materials, excluding equipment specially designed for the zone purification of germanium. (Specify by name and characteristics.)	No.	ELME 1	TVWXYZ	500	—	—	A
72992 Electric industrial melting and refining furnaces specially designed for the production or processing of vapor deposited (pyrolytic) graphite or doped graphites whether as standing bodies, coatings, linings, or substrates. (Specify by name and characteristics.)	No.	ELME 2	TVWXYZ	500	—	—	
72992 Other electric industrial melting, refining and metal heat-treating furnaces. (Specify by name and characteristics.)	No.	ELME 2	TVWXYZ	500	—	—	
72992 Parts specially designed for the furnaces under Export Control Commodity No. 72992 which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name and type of furnace.)	.....	ELME 1	TVWXYZ	500	100	—	A
72992 Other parts for furnaces under Export Control Commodity No. 72992. (Specify by name and type of furnace.)	.....	ELME 2	TVWXYZ	500	100	—	
72992 Ovens, infra-red and high frequency, for biscuit baking, industrial; and parts.	.....¹	GIEQ 8	YZ	—	—	—	B
72992 Electric arc devices, n.e.c., for generating a flow of ionized gas in which the arc column is constricted, excluding devices wherein the flow of gas is for isolation purposes only; equipment incorporating such devices; and specially designed parts, accessories and controls, n.e.c.	ELME 1	TVWXYZ	500	—	—	A

¹ Report complete ovens (assembled or unassembled) in "number."

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72992 Electron beam welders, <i>excluding equipment using the "sparking" technique, or continuous vacuum roll coating machines having a voltage not in excess of 20 KV, having a fixed electron beam gun and no accurate control of the thickness of the deposited layer, and specially designed parts and accessories.</i>	.....¹	ELME 1	TVWXYZ	500	—	—	A
72992 Automatic pipe welding machines capable of welding the joints of steel pipe of a size greater than 19 inches o.d.	No.	ELME 2	VWXYZ	—	—	—	
72992 Parts and accessories specially designed for automatic pipe welding machines capable of welding the joints of steel line pipe of a size greater than 19 inches o.d.	.....	ELME 2	VWXYZ	—	500	—	
72992 Other electric welding and cutting apparatus; and other industrial electric induction and dielectric heating equipment; and parts.	.....²	ELME 8	XYZ	—	—	25	B
72992 Laboratory furnaces and ovens, electric; and parts.	.....³	ELME 8	XYZ	—	—	25	B
72992 Dental furnaces, electric; and parts.....	.....³	ELME 8	Z	—	—	—	B
72993 Aerodrome (airport) beacons, flashing, electric; and parts.	.....	ELME 8	XYZ	—	—	25	B
72993 Railway traffic control equipment; and parts. (Specify by name.)	.....	TRAN 8	XYZ	—	—	25	B
72993 Other electric traffic control equipment; and parts <i>excluding signal lights.</i>	.....	ELME 8	XYZ	—	—	25	B
72993 Traffic signal lights.....	.....	ELME 8	Z	—	—	—	B
72994 Flashing, intermittent, and rotating lights for aircraft; and parts.	.....	TRAN 2	TVWXYZ	500	500	—	E-2
72994 Other electric sound or visual signalling apparatus, n.e.c.	.....	ELME 8	XYZ	—	—	25	B
72995 Electronic capacitors designed for and/or capable of reliable performance in relation to their electrical and mechanical characteristics and maintaining their design service life-time while operating over the whole range of ambient temperatures from below minus 45° C. to above plus 100° C., or at ambient temperatures of 200° C. or higher. (Specify by name and type number); and parts. (Specify by name.)	No.	RARA 1	TVWXYZ	500	100	—	A
72995 Tantalum or niobium electrolytic capacitors as follows: (a) types designed to operate permanently at temperatures over 85° C., (b) sintered types, or (c) foil types. (Specify by name and type number); and parts. (Specify by name.)	No.	RARA 1	TVWXYZ	500	100	—	A

¹ Report complete welders (assembled or unassembled) in "number."

² Report complete welders in "number."

³ Report complete furnaces and ovens (assembled or unassembled) in "number."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72995 Other tantalum electrolytic capacitors. (Specify by name and type number), and parts. (Specify by name.)	No.	RARA 2	TVWXYZ	500	100	—	
72995 Other capacitors for electronic applications; and parts. (Specify by name and type number.)	No.	RARA 8	XYZ	—	—	25	B
72995 Capacitors (condensers), n.e.c.; and parts.. Electrical carbons, brushes, and brush plates:	No.	ELME 8	XYZ	—	—	25	B
72996 Brush stock, artificial graphite, whether or not containing other materials to give improved performance at high temperatures, having an ap- parent relative density of 1.90 and greater, <i>exclud- ing non-pyrolytic graphite of density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.)</i>.	.....	ELME 1	TVWXYZ	500	50	—	A E-6
72996 Brush stock, artificial graphite, smallest di- mension 2 inches or over, and having a boron content of one part per million or less. (Specify size and boron content in parts per million.)	.....	ELME 1	TVWXYZ	500	50	—	A E-6
72996 Brush stock, artificial graphite, non-pyro- lytic, having an apparent relative density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.), in such forms as will not pass through a two-inch square hole.	.....	ELME 2	TVWXYZ	500	50	—	E-6
72996 Other brush stock, artificial graphite, small- est dimension 2 inches or over. (Specify size and boron content in parts per million.)	.....	ELME 2	TVWXYZ	500	25	—	E-6
72996 Lighting carbons, artificial graphite, whether or not containing other materials to give improved performance at high temperatures, having an ap- parent relative density of 1.90 and greater, <i>exclud- ing non-pyrolytic graphite of density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.)</i>.	.....	ELME 1	TVWXYZ	500	25	—	A E-6
72996 Lighting carbons, artificial graphite, small- est dimension 2 inches or over, and having a boron content of one part per million or less. (Specify size and boron content in parts per million.)	.....	ELME 1	TVWXYZ	500	25	—	A E-6
72996 Lighting carbons, artificial graphite, non- pyrolytic, having an apparent relative density be- tween 1.90 and 1.95 when compared to water at 15.5° C. (60° F.), in such forms as will not pass through a two inch square hole.	.....	ELME 2	TVWXYZ	500	25	—	E-6
72996 Other lighting carbons, artificial graphite, smallest dimension 2 inches or over. (Specify size and boron content in parts per million.)	.....	ELME 2 ¹	TVWXYZ	500	25	—	E-6
72996 Electrical carbons, <i>excluding brushes, brush stock and lighting carbons</i> , artificial graphite, smallest dimensions 2 inches or over, having a boron content of one part per million or less. (Spec- ify by size.) ¹	MINL 1	TVWXYZ	500	100	—	A E-8

¹ Report electrodes for furnace or electrolytic use in "pound."

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72996-72998

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72996 Electrical carbons, <i>excluding brushes, brush stock and lighting carbons</i> , artificial graphite, whether or not containing other materials to give improved performance at high temperatures, having an apparent relative density of 1.90 and greater, <i>excluding non-pyrolytic graphite of density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.)</i>.	.....¹	MINL 1	TVWXYZ	500	—	—	A
72996 Other pyrolytic graphite electrical carbons..	.....¹	MINL 2	TVWXYZ	500	—	—	
72996 Electrical carbons, <i>excluding brushes, brush stock and lighting carbons</i> , non-pyrolytic artificial graphite having an apparent relative density between 1.90 and 1.95 when compared to water at 15.5° C. (60° F.), in such forms as will not pass through a two-inch square hole.	.....¹	MINL 2	TVWXYZ	500	100	—	E-8
72996 Electrical carbons, <i>excluding brushes, brush stock and lighting carbons</i> , artificial graphite, smallest dimension 2 inches or over. (Specify by name, size, and boron content in parts per million.)	.....¹	MINL 2	TVWXYZ	500	100	—	E-8
72996 Other lighting carbons; other brush stock; and carbon brushes.	.....	ELME 8	XYZ	—	—	25	B
72996 Other electrical carbons.....	.....¹	MINL 8	YZ	—	—	—	B
Electronic and electrical parts of machinery and appliances, n.e.c.:				500	100	—	A
72998 Electronic resistive, inductive and/or capacitive components, n.e.c., designed for and/or capable of reliable performance in relation to their electrical and mechanical characteristics and maintaining their design service lifetime while operating over the whole range of ambient temperatures from below minus 45° C. to above plus 100° C., or at ambient temperatures of 200° C. or higher; and specially designed parts. (Specify by name and type number.)	.....	RARA 1	TVWXYZ	500	100	—	A
72998 Radiant energy type thermal detecting cells (for example bolometers and thermocouple detectors) with a response time constant of less than 10 milliseconds measured at the operating temperature of the cell for which the time constant reaches a minimum. (Specify by name and model number.)	.....	RARA 1	TVWXYZ	500	100	—	A

¹ Report electrodes for furnace or electrolytic use in "pound."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72998 Quartz crystals, mounted. (Specify by type number.)	RARA 1	TVWXYZ	500	100	—	A
72998 Electronic equipment, n.e.c., and components, n.e.c., as follows: (a) Assemblies and subassemblies constituting one or more functional circuits with a component density greater than 75 parts per cubic inch, and equipment containing such assembly or subassembly, or (b) Modular insulator panels (including wafers) mounting single or multiple electronic elements; and specially fabricated parts, n.e.c. (Specify by name and type number.)	RARA 1	TVWXYZ	500	100	—	A
72998 The following devices, or equipment containing such devices, when made of crystals having spinel, hexagonal, or garnet crystal structures, or thin film devices: (a) Monocrystals of ferrites and synthetic garnets; (b) Single-aperture forms having (i) switching speed of 0.5 microsecond or less at the minimum field strength required for switching at 40° C., or (ii) a maximum dimension less than 45 mils (1.14 mm); (c) Multi-aperture forms having (i) switching speed of 1 microsecond or less at the minimum field strength required for switching at 40° C., or (ii) a maximum dimension less than 100 mils (2.54 mm); (d) Multi-aperture forms having 10 or more apertures; (e) Thin film memory storage or switching devices; (f) Electrical filters in which the coupling elements make use of the electro-mechanical properties of ferrites; or (g) Materials suitable for application in electromagnetic devices making use of gyromagnetic resonance phenomenon; and specially fabricated parts and accessories, n.e.c. (Specify by name and characteristics.)	RARA 1	TVWXYZ	500	100	—	A
72998 Parts and components fabricated of beryllium oxide ceramic. (Specify by name.)	RARA 2	TVWXYZ	500	100	—	

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72998

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	G.I.V. & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72998 Other electronic components, n.e.c., designed to operate over the range of ambient temperatures from below minus 45° C. to above plus 100° C., or at ambient temperatures of 200° C. or higher; and specially fabricated parts, n.e.c. (Specify by name and type number.)	RARA 2	TVWXYZ	500	100	—	
72998 Bakelite® knobs; cabinets, <i>excluding wood</i> ; fiber washers; lightning arrestors; lightning protectors; pilot lamp holders; and serrated washers.	RARA 8	Z	—	—	—	B
72998 Other electronic components and parts, n.e.c. (Specify by name.)	RARA 8	WXYZ	—	—	25	B
72998 Thermoelectric devices as follows: (a) junctions and combinations of junctions using any thermoelectric material having a maximum product of the figure of merit (Z) and the temperature (T in °K) in excess of 0.75, (b) heat absorbing and/or electrical power generating devices containing any of the aforementioned junctions, or (c) other power generating devices which generate in excess of 10 watts per pound or 500 watts per cubic foot of the devices' basic thermoelectric components (specify by name and model number); and specially designed parts and accessories, n.e.c.	ELME 1	TVWXYZ	500	—	—	A
72998 Electronic equipment and components, as follows: (a) assemblies and subassemblies constituting one or more functional circuits with a component density greater than 75 parts per cubic inch, and equipment containing such assembly or subassembly, or (b) modular insulator panels (including wafers) mounting single or multiple electronic elements; and specially fabricated parts, n.e.c. (Specify by name and type number.)	RARA 1	TVWXYZ	500	100	—	A
72998 The following devices, or equipment containing such devices, when made of crystals having spinel, hexagonal, or garnet crystal structures, or thin film devices: (a) monocrystals of ferrites and synthetic garnets, (b) single-aperture forms having (i) switching speed of 0.5 microsecond or less at the minimum field strength required for switching at 40° C., or (ii) a maximum dimension less than 45 mils (1.14 mm); (c) multi-aperture forms having (i) switching speed of 1 microsecond or less at the minimum field strength required for switching at 40° C., or (ii) a maximum dimension less than 100 mils (2.54 mm); (d) multi-aperture forms having 10 or more apertures; (e) thin film memory storage or switching devices; (f) elec-	RARA 1	TVWXYZ	500	100	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipments to Country Groups			Special Provisions List
				T	X	V	
trical filters in which the coupling element makes use of the electro-mechanical properties of ferrites; or (g) materials suitable for application in electromagnetic devices making use of gyromagnetic resonance phenomenon; and specially fabricated parts and accessories, n.e.c. (Specify by name and characteristics.)							
72998 Other electrical components and parts, n.e.c.	.....	ELME 8	XYZ	—	—	25	B
72999 Signal generators specially designed for testing or calibrating the airborne direction finding equipment, airborne navigational apparatus, flight instruments, and radar equipment (airborne, ground and marine) included under Export Control Commodity Nos. 72499 and 86191; and specially designed parts. (Specify by name and model number.)	.....¹	ELME 1	TVWXYZ		100	—	A
72999 Pulse generators specially designed for use with magnetic core testers; and specially designed parts.	.....¹	ELME 1	TVWXYZ	500	100	—	A
72999 Signal generators having either of the following characteristics: (a) designed to operate at frequencies in excess of 1,000 megacycles or (b) rated to maintain their specific operating data when operating over a range of ambient temperatures extending from below minus 25° C. to above plus 55° C.; and specially designed parts. (Specify by name and model number.)	.....¹	ELME 1	TVWXYZ	500	100	—	A
72999 Other signal generators operating at frequencies of 300 megacycles and over; and specially designed parts. (Specify by name and model number.)	.....¹	ELME 2	TVWXYZ	500	100	—	
Electrical apparatus, n.e.c.:							
72999 Synchros and resolvers having any of the following characteristics: (a) a rated electrical error of 10 minutes or less, or of 0.5 percent or less of maximum output voltage, (b) a rated dynamic accuracy for receiver types of 1° or less, except that for units of size 30 (3 inches in diameter) or larger a rated dynamic accuracy of less than 1°, (c) multispeed from single shaft types, (d) of size 11 (1.1 inches in diameter) and smaller; (e) employing solid state Hall effect, (f) designed for gimbal mounting, or (g) designed to operate below minus 55° C. or above plus 125° C. (specify by name and model number); and specially designed parts and accessories, n.e.c.	ELME 1	TVWXYZ	500	—	—	A

¹ Report complete generators (assembled or unassembled) in "number."

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72999

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72999 Amplifiers, electronic or magnetic, designed for use with resolvers, as follows: (a) isolation types having a variation of gain constant (linearity of gain) of 0.5 per cent or better, (b) summing types having a variation of gain constant (linearity of gain) or an accuracy of summation of 0.5 percent or better, (c) employing solid state Hall effect, or (d) designed to operate below minus 55° C. or above plus 125° C. (Specify by name and model number.)	RARA 1	TVWXYZ	500	100	—	A
72999 Other instruments which perform functions similar to synchros or resolvers (for example, Microsyns, Synchrotel®, and Inductosyns®, and which have any of the following characteristics: (a) a rated electrical error of 10 minutes or less, or of 0.5 percent or less of maximum output voltage, or (b) a rated dynamic accuracy for receiver types of 1° or less, except that for units of size 30 (3 inches in diameter) or larger a rated dynamic accuracy of less than 1° (specify by name and model number); and specially designed parts and accessories, n.e.c.	ELME 1	TVWXYZ	500	—	—	A
72999 Other servo control units, synchros, resolvers, linear induction potentiometers, induction rate generators, and servo motors; and specially designed parts and accessories, n.e.c.	ELME 2	TVWXYZ	500	—	—	
72999 Induction potentiometers (including function generators and linear synchros), linear and nonlinear, having any of the following characteristics: (a) a rated conformity of 0.5 percent or less, or of 18 minutes or less, (b) of size 11 (1.1 inches in diameter) and smaller, (c) employing solid state Hall effect, (d) designed for gimbal mounting, or (e) designed to operate below minus 55° C. or above plus 125° C. (specify by name and model number); and specially designed parts and accessories, n.e.c.	ELME 1	TVWXYZ	500	—	—	A
72999 Induction rate (tachometer) generators, synchronous and asynchronous, having any of the following characteristics: (a) a rated linearity of 0.5 percent or less, (b) all temperature-compensated or temperature-corrected types, (c) of size 11 (1.1 inches in diameter) and smaller, (d) employing solid state Hall effect, or (e) designed to operate below minus 55° C. or above plus 125° C. (specify by name and model number); and specially designed parts and accessories, n.e.c.	ELME 1	TVWXYZ	500	—	—	A

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
72999 Servo motors (gear head or plain), having any of the following characteristics: (a) designed to operate from power sources of more than 300 cycles per second, excluding those designed to operate from power sources of over 300 cycles per second up to and not exceeding 400 cycles per second with a temperature range of from minus 10° C. to plus 55° C., (b) designed to have a torque-to-inertia ratio of 10,000 radians per second or greater (c) incorporating special features to secure internal damping, (d) of size 11 (1.1 inches in diameter) and smaller, (e) employing solid state Hall effect, or (f) designed to operate below minus 55° C. or above plus 125° C. (specify by name and model number); and specially designed parts and accessories, n.e.c.	ELME 1	TVWXYZ	500	—	—	A
72999 Synchronous motors, having any of the following characteristics: (a) of size 30 (3 inches in diameter) and smaller and having synchronous speeds in excess of 3,000 r.p.m., (b) designed to operate from power sources of more than 400 cycles, (c) designed to operate below minus 10° C. or above plus 55° C., or (d) of size 11 (1.1 inches in diameter) and smaller (specify by name and model number); and specially designed parts and accessories, n.e.c.	ELME 1	TVWXYZ	500	—	—	A
72999 Other synchronous motors having synchronous speeds in excess of 3,000 r.p.m.; and specially designed parts and accessories, n.e.c. (Specify by name and model number of motor.)	ELME 2	TVWXYZ	500	—	—	
72999 Analog-to-digital and digital-to-analog converters as follows: (a) electrical input types possessing (i) a peak conversion rate capability in excess of 50,000 complete conversions per second, (ii) an accuracy in excess of 1 part in more than 10,000 of full scale, or (iii) a figure of merit of 5 times 10 ⁶ (derived from the number of complete conversions per second divided by the accuracy); (b) mechanical-input types (including but not limited to shaft-position encoders and linear displacement encoders, but excluding complex servo-follower systems) (i) rotary types having an accuracy or maximum incremental accuracy better than plus or minus 1 part in 10,000 of full scale or of size 11 (1.1 inches in diameter) and smaller, (ii) linear displacement types having an accuracy better than plus or minus 5 microns; (c) employing solid state Hall effect; or (d) designed to	ELME 1	TVWXYZ	500	100	—	A

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7299-73105

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
operate below minus 55° C. or above plus 125° C. (specify model or type number); and specially designed parts and accessories, n.e.c. (Specify by name.)							
72999 Semiconductor Hall field probes having any of the following characteristics: (a) made of indium-arsenide-phosphide (In As P), (b) coated with ceramic or ferritic materials (for example, special field probes such as tangential field probes, multipliers, modulators, recorder probes, etc.), or (c) with an open circuit sensitivity greater than 0.12 volts per ampere kilogauss; and specially designed parts and accessories, n.e.c.	.....	ELME 1	TVWXYZ	500	—	—	A
72999 Thermoelectric devices, as follows: (a) junctions and combinations of junctions using any thermoelectric material having a maximum product of the figure of merit (Z) ¹ and the temperature (T in °K) in excess of 0.75, (b) heat absorbing and/or electrical power generating devices containing any of the aforementioned junctions, or (c) other power generating devices which generate in excess of 10 watts per pound or 500 watts per cubic foot of the devices' basic thermoelectric components ² (specify by name and model number); and specially designed parts, components, and sub-assemblies, n.e.c.	.....	ELME 1	TVWXYZ	500	—	—	A
72999 Electrical apparatus, specially designed for operation at temperatures below minus 130° C. and specially designed parts. (Specify by name.)	.....	ELME 1	TVWXYZ	500	100	—	A
72999 Other electrical apparatus, n.e.c. ³.....	.....	ELME 8	XYZ	—	—	25	B
TRANSPORT EQUIPMENT							
73101 Railway locomotives, including tenders [Report parts in Export Control Commodity No. 73170].	No.	TRAN 8	XYZ	—	—	25	B
73105 Railway cars, new, used, or rebuilt, as follows: (a) equipped with jacketed containers of 250 to 500 gallon capacity, designed for the handling of liquid fluorine; or (b) equipped with jacketed containers of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period.</i> ^{4, 5}	No.	TRAN 1	TVWXYZ	500	500	—	A

¹ The figure of merit (Z) equals Seebeck coefficient squared, divided by the product of electrical resistivity and thermal conductivity.

² The weight and cubic measurements in part (c) of this entry are not intended to encompass the complete device, but to include only the thermoelectric elements and assembly and the components for *pumping calories*. Other components, such as heating and/or cooling sources or containers, device frames or stands, and control equipment, are not to be included in the calculations.

³ Mine detectors require export authorization from the Department of State. See paragraph 370.5(a).

⁴ A jacketed container is a thermos container that has more than one wall and is insulated by a vacuum or by insulation material.

⁵ Average evaporation loss is to be calculated as a percentage of the total liquid capacity of the container under ambient temperature conditions of plus 75° F. (plus 24° C.) or higher and without exposure to direct sunlight.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
73105 Railway cars, new, used, or rebuilt, equipped with other liquefied gas jacketed containers of 500 gallon capacity or over. ¹	No.	TRAN 2	TVWXYZ	500	500	—	
73105 Other railroad and street cars, <i>excluding locomotives</i> . [Report parts in Export Control Commodity No. 73170.] ²	No.	TRAN 8	XYZ	—	—	25	B
73170 Parts specially designed for railway cars, as follows: (a) jacketed containers of 250 to 500 gallon capacity, designed for the handling of liquid fluorine; or (b) jacketed containers of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period</i> . ^{1, 3}	.....	TRAN 1	TVWXYZ	500	500	—	A
73170 Other liquefied gas jacketed containers of 500 gallon capacity or over, designed as parts for railway cars. ¹	.....	TRAN 2	TVWXYZ	500	500	—	B
73170 Other parts for railway locomotives and rolling stock, n.e.c., <i>excluding axles and wheels</i>.	.....	TRAN 8	XYZ	—	—	25	B
73170 Axles and wheels for locomotives and railway cars.	S. ton	STEE 8	YZ	—	—	—	B
73201 Military passenger cars, new or used (assembled or unassembled), possessing or built to current military specifications differing materially from their normal commercial specifications.	No.	TRAN 1	TVWXYZ	500	—	—	A
73201 Other military passenger cars, new or used (assembled or unassembled).	No.	TRAN 8	WXYZ	—	—	25	B
73201 Nonmilitary passenger cars, new or used (assembled or unassembled), having front and rear axle drive.	No.	TRAN 8	WXYZ	—	—	25	B
73201 Other nonmilitary passenger cars, new or used (assembled or unassembled).	No.	TRAN 8	XYZ	—	—	25	B
73202 Military and nonmilitary trucks, truck chassis, and truck tractors, new or used, all fuels, as follows: (a) equipped with jacketed containers of 250 to 500 gallon capacity, designed for the handling of liquid fluorine, or (b) equipped with jacketed containers of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period</i> . ^{1, 3}	No.	TRAN 1	TVWXYZ	500	—	—	A

¹ A jacketed container is a thermos container that has more than one wall and is insulated by a vacuum or by insulation material.

² Armored railroad cars require export authorization from the Department of State. See paragraph 370.5(z).

³ Average evaporation loss is to be calculated as a percentage of the total liquid capacity of the container under ambient temperature conditions of plus 75° F. (plus 24° C.) or higher and without exposure to direct sunlight.

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73202-73203

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
73202 Military and nonmilitary trucks, truck chassis and truck tractors, new or used, all fuels, equipped with other liquefied gas jacketed containers of 500 gallons capacity or over. ¹	No.	TRAN 2	TVWXYZ	500	—	—	
73202 Military trucks, truck chassis, and truck tractors, new or used (assembled or unassembled), possessing or built to current military specifications differing materially from their normal commercial specifications.	No.	TRAN 1	TVWXYZ	500	—	—	A
73202 Other military trucks, truck chassis, and truck tractors, new or used (assembled or unassembled).	No.	TRAN 8	WXYZ	—	—	25	B
73202 Nonmilitary trucks, truck chassis, and truck tractors, new or used (assembled or unassembled), having front and rear axle drive. ²	No.	TRAN 8	WXYZ	—	—	25	B
73202 Other nonmilitary trucks, truck chassis and truck tractors, new or used (assembled or unassembled). ²	No.	TRAN 8	XYZ	—	—	25	B
Special-purpose vehicles, commercial and military:							
73203 Off-the-road vehicles which possess or are built to current military specifications differing materially from normal commercial specifications. ²	No.	CONS 1	TVWXYZ	500	—	—	A
73203 Other off-the-road vehicles having an axle load rating of 47,500 lbs. or more for any one axle assembly (whether the axle assembly consists of one or two axles.) (Specify type and axle load rating.)	No.	CONS 2	VWXYZ	—	—	—	E-11
73203 Other off-the-road vehicles.....	No.	CONS 8	XYZ	—	—	25	B
73203 Vehicles which possess or are built to current military specifications differing materially from normal commercial specifications, <i>excluding off-the-road vehicles.</i> (See § 399.2, Interpretation 19.)	No.	TRAN 1	TVWXYZ	500	—	—	A
73203 Military searchlight trucks (trucks mounted with power-controlled searchlights designed for military use). (Specify by name.)	No.	ELME 1	TVWXYZ	500	—	—	A
73203 Other searchlight trucks.....	No.	ELME 8	XYZ	—	—	25	B
73203 Trucks mounted with telecommunications equipment (including radar), Export Control Commodity No. 72499. (Specify the equipment.)	No.	Export controls applicable to vehicles included in this entry are those which apply to the equipment mounted on the vehicle.					
73203 Truck-mounted excavator-type power cranes and shovels, full revolving, possessing or built to current military specifications differing materially from normal commercial specifications and specially designed for airborne transport.	No.	CONS 1	TVWXYZ	500	—	—	A

¹ A jacketed container is a thermos type container that has more than one wall and is insulated by a vacuum or by insulation material.
² "Off-the-road vehicles are interpreted, for purposes of export control, to be those which, without modification by increase of standard tire size and/or spacing have an overall width of over 98 inches as measured from outside of rear tires.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
73203 Other truck-mounted excavator-type power cranes and shovels, full revolving, over 1 cu. yd. dipper capacity, or over 30 tons crane lifting capacity. (Specify type and capacity.)	No.	CONS 2	VWXYZ	—	—	—	
73203 Other truck cranes, drag lines and shovels. .	No.	CONS 8	XYZ	—	—	25	B
73203 Military and nonmilitary vehicles, new or used, as follows: (a) equipped with jacketed containers of 250 to 500 gallon capacity, designed for the handling of liquid fluorine; or (b) equipped with jacketed containers of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period.</i> ^{1, 2}	No.	TRAN 1	TVWXYZ	500	—	—	A
73203 Military and nonmilitary vehicles, new or used, equipped with other liquefied gas jacketed containers of 500 gallons capacity or over. ¹	No.	TRAN 2	TVWXYZ	500	—	—	
73203 Other special-purpose military vehicles, all types; and other special-purpose commercial vehicles having front and rear-axle drive.	No.	TRAN 8	WXYZ	—	—	25	B
73203 Other special-purpose commercial vehicles. .	No.	TRAN 8	XYZ	—	—	25	B
73203 Special purpose vehicles specially designed or equipped for geophysical use (for example, well-logging, seismograph, etc.)	No.	CONS 2	TVWXYZ	500	100	—	E-12
73203 Special purpose vehicles specially designed or equipped for oilfield use (for example, cementing, perforating, acidizing, fracturing, etc.)	No.	CONS 2	VWXYZ	—	500	—	E-12
73203 Truck-mounted rotary drill rigs incorporating rotary tables with drawworks designed for an input of 150 horsepower and over.	No.	CONS 2	VWXYZ	—	—	—	
73203 Other truck-mounted rotary drill rigs.	No.	CONS 8	XYZ	—	—	25	B
73203 Truck-mounted concrete mixers (built-in mixers); mobile bituminous combination batching-mixing outfits; mobile gravel and tar spreaders; mobile derricks; snow plows, road motor, self propelled with built-in equipment; Towermobiles®; and rubber-tired mine shuttle cars.	No.	CONS 8	XYZ	—	—	25	B
73204 Motor busses which possess or are built to current military specifications differing materially from normal commercial specifications.	No.	TRAN 1	TVWXYZ	500	—	—	A
73204 Other military busses; and commercial busses having front and rear axle drive.	No.	TRAN 8	WXYZ	—	—	25	B
73204 Other commercial busses.	No.	TRAN 8	XYZ	—	—	25	B

¹ A jacketed container is a thermos type container that has more than one wall and is insulated by a vacuum or by insulation material.

² Average evaporation loss is to be calculated as a percentage of the total liquid capacity of the container under ambient temperature conditions of plus 75° F. (plus 24° C.) or higher and without exposure to direct sunlight.

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73205-73280

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
73205 Truck bodies, commercial and military, as follows: (a) equipped with jacketed containers of liquid fluorine; or (b) equipped with jacketed containers of 500 gallon capacity or over, designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period.</i> ^{1, 2}	No.	TRAN 1	TVWXYZ	500	—	—	A
73205 Truck bodies, commercial and military, equipped with other liquefied gas jacketed containers of 500 gallons capacity or over. ¹	No.	TRAN 2	TVWXYZ	500	—	—	
73205 Other military truck and bus bodies.....	No.	TRAN 8	WXYZ	—	—	25	B
73205 Other commercial truck bodies; and all commercial bus bodies.	No.	TRAN 8	XYZ	—	—	25	B
Motor vehicle and tractor parts and accessories, n.e.c.:							
73280 Parts and accessories specially designed for wheel tractors of 125 belt horsepower or over, <i>excluding contractors' off-highway tractors.</i>	.....	AGSU 2	VWXYZ	—	—	—	
73280 Parts and accessories for garden tractors (8 horsepower and under).	.....	AGSU 8	YZ	—	—	—	B
73280 Other parts and accessories for wheel tractors, <i>excluding contractors' off-highway tractors.</i>	.....	AGSU 8	XYZ	—	—	25	B
73280 Parts and accessories specially designed for the following tractors when possessing or built to current military specifications differing materially from their normal commercial specifications: (a) off-highway wheel tractors, and (b) tracklaying tractors. (Specify that parts and accessories are for military type tractors.)	.....	CONS 1	TVWXYZ	500	—	—	A
73280 Parts and accessories, <i>excluding cabs and cab guards (canopy tops)</i> , specially designed for other tractors as follows: (a) off-highway wheel tractors of 135 net brake horsepower or over, and (b) tracklaying tractors of 112 drawbar horsepower or over. (Specify that parts and accessories are for nonmilitary type tractors.)	.....	CONS 2	VWXYZ	—	1,000	—	E-11
73280 Other parts and accessories for tractors....	.....	CONS 8	XYZ	—	—	25	B
73280 Tanks designed as parts for commercial or military vehicles, as follows: (a) jacketed containers of 250 to 500 gallon capacity, designed for the handling of liquid fluorine, or (b) jacketed containers of 500 gallon capacity or over designed for liquid nitrogen, oxygen, hydrogen, ozone, helium, argon, or fluorine, <i>excluding 2-shell or 3-shell containers rated for an average evaporation loss of over 5 percent per 24-hour period.</i> ^{1, 2}	.....	TRAN 1	TVWXYZ	500	—	—	A

¹ A jacketed container is a thermos type container that has more than one wall and is insulated by a vacuum or by insulation material.
² Average evaporation loss is to be calculated as a percentage of the total liquid capacity of the container under ambient temperature conditions of plus 75° F. (plus 24° C.) or higher and without exposure to direct sunlight.

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73330-73942

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
73300 Other liquefied gas jacketed containers of 500 gallon capacity or over, mounted on, or designed to be mounted on, nonmilitary or military trailers.	.....	TRAN 2	TVWXYZ	500	—	—	
73300 Other parts designed for, or intended for use on, military trailers.	.....	TRAN 8	WXYZ	—	—	25	B
73300 Other parts for commercial trailers.....	.....	TRAN 8	XYZ	—	—	25	B
73410 Aircraft passenger and cargo transports, military, models C-46, C-47 and C-54, without armament. (Specify name of model designation.) ¹	No.	TRAN 2	TVWXYZ	500	—	—	E-2
73410 Nonmilitary aircraft and helicopters, new, used or rebuilt, excluding demilitarized, 90,000 lbs. and over empty weight, of types and models which have been in normal civil use for two years or less. (Specify name of manufacturer and manufacturer's model designation.) ^{1, 2}	No.	TRAN 1	TVWXYZ	500	—	—	A E-2
73410 Other nonmilitary aircraft and helicopters, excluding demilitarized. ¹	No.	TRAN 2	TVWXYZ	500	—	—	E-2
73491 Airships and balloons, nonmilitary, excluding demilitarized, and excluding sounding balloons, ceiling balloons and pilot balloons. ¹	No.	TRAN 2	TVWXYZ	500	—	—	E-2
73491 Pilot balloons, wholly made of fluorocarbon elastomers (polymers and copolymers); sounding balloons; and ceiling balloons. ³	No.	RUBR 1	TVWXYZ	500	—	—	A
73491 Pilot balloons not wholly made of fluorocarbon elastomers (polymers and copolymers). ³	No.	RUBR 8	YZ	—	—	—	B
73492 Parts and accessories for aircraft, airships and balloons, wholly made of fluorocarbons (polymers and copolymers). ³	.....	TRAN 1	TVWXYZ	500	25	—	A E-2
73492 Parts specially designed for types and models of aircraft of 90,000 pounds and over empty weight which have been in normal civil use for two years or less, the following only: (a) fuselages or hulls, (b) wings, wing panels and sections, or (c) rudders and fins. ^{1, 2}	.....	TRAN 1	TVWXYZ	500	—	—	A E-2
73492 Propeller assemblies, complete, for aircraft and airships.	No.	TRAN 2	TVWXYZ	500	500	—	E-2
73492 Parts and accessories specially designed for propellers for aircraft and airships and wholly made of fluorocarbons (polymers and copolymers). ³	.....	TRAN 1	TVWXYZ	500	25	—	A
73492 Other parts and accessories, n.e.c., specially designed for propellers for aircraft and airships.	.....	TRAN 2	TVWXYZ	500	500	—	E-2
73492 Aircraft landing gear assemblies and parts, specially designed for aircraft of 90,000 pounds and over, empty weight.	.....	TRAN 1	TVWXYZ	500	500	—	A E-2
73942 Parts and accessories specially designed for aircraft landing gear and wholly made of fluorocarbons (polymers and copolymers). ³	.....	TRAN 1	TVWXYZ	500	25	—	A

¹ All military aircraft, military helicopters, military airships, military balloons, demilitarized aircraft, and parts and accessories specially designed therefor, require export authorization from the Department of State. See paragraph 370.5(a).

² Empty weight of aircraft includes the structure, engines, fixed equipment and all furnishings, but does not include fuel or payload.

³ See § 899.2, Interpretation 22.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
73492 Other parts and accessories for nonmilitary aircraft, helicopters, airships and balloons.	.....	TRAN 2	TVWXYZ	500	500	—	E-2
Ships and boats: ¹							
73580 Ships, boats and other vessels, for breaking up (for scrapping).	S. ton	STEE 8	WXYZ	—	—	25	B
Floating structures, other than vessels: ²							
73593 Pontoons, metal, for supporting temporary bridges.	.....	STEE 8	WXYZ	—	—	25	B
73593 Floating structures of metal (for example, buoys, and landing stages).	.....	FINP 8	YZ	—	—	—	B
73593 Other floating structures, <i>excluding vessels</i> (for example coffer-dams, landing stages, floating swimming pools).	.....	FINP 8	XYZ	—	—	25	B
SECTION 8—MISCELLANEOUS MANUFACTURED ARTICLES							
SANITARY, PLUMBING, HEATING AND LIGHTING FIXTURES AND FITTINGS							
81210 Warm air furnaces, <i>excluding floor and wall</i> ; and steel boilers, central heating, <i>excluding steam-generating</i> .	No.	FINP 8	YZ	—	—	—	B
81210 Other central heating apparatus, boilers, <i>excluding steam-generating boilers</i> , radiators, etc., and parts.	.....	FINP 8	YZ	—	—	—	B
81220 Water closet sets of ceramic materials.....	No.	FINP 8	Z	—	—	—	B
81220 Sinks, washbasins, baths, etc., and other sanitary plumbing fixtures and fittings of ceramic materials.	.....	FINP 8	Z	—	—	—	B
81230 Bathtubs, lavatories, sinks and other plumbing fixtures of iron or steel (whether or not enameled).	No.	FINP 8	Z	—	—	—	B
81230 Plumbing fixture fittings of iron or steel (whether or not enameled).	.....	FINP 8	Z	—	—	—	B
81241 Lighting fixtures, completely or predominantly of glass.	No.	FINP 8	Z	—	—	—	B
81241 Globes, shades, and other glass articles for any type of lighting fixture.	.....	FINP 8	Z	—	—	—	B
81242 Landing lights and other lighting fixtures specially designed for aircraft.	.....	TRAN 2	TVWXYZ	500	500	—	E-2
81242 Headlamps and other lighting fixtures designed for locomotives and railway cars.	.....	TRAN 8	XYZ	—	—	25	B
81242 Incandescent lighting fixtures, exterior.....	.....	FINP 8	XYZ	—	—	25	B
81242 Explosion-proof lighting fixtures; and vapor-proof lighting fixtures.	No.	FINP 8	XYZ	—	—	25	B
81242 Electric lighting fixtures, residential, commercial and industrial, of base metal.	No.	FINP 8	Z	—	—	—	B
81242 Other lighting equipment, <i>excluding portable electric battery and magneto lamps</i>.	.....	FINP 8	Z	—	—	—	B
81243 Portable electric battery and magneto lamps.	No.	FINP 8	Z	—	—	—	B

¹ See paragraph 370.5(c) for information concerning export requirements for ships and boats.² See paragraph 370.5(a) for commodities requiring export authorization from the Department of State; and see paragraph 370.5(c) for commodities requiring export authorization from the U. S. Maritime Administration.

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82102-84113

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
FURNITURE							
82102 Furniture designed specifically for medical, dental, surgical, or veterinary use (including beauty and barber shop chairs similar to dentists' chairs), including parts.	.....	FINP 8	Z	—	—	—	B
82103 Bedsprings (including cushion springs and spring construction units).	Lb.	STEE 8	Z	—	—	—	B
82103 Mattresses and similar stuffed furnishings, cotton.	.....	TEXT 8	YZ	—	—	—	B
82103 Mattresses and similar stuffed furnishings, kapok, moss, or hair.	.....	TEXT 8	Z	—	—	—	B
82103 Mattresses and similar stuffed furnishings, rubber.	.....	RUBR 8	Z	—	—	—	B
82110 Furniture, household, plastic, (excluding radio, phonograph, and TV cabinets).	.....	RESN 8	YZ	—	—	—	B
82110 Convertible sofas, jackknife sofas, chairs, beds, and studio couches.	No.	FINP 8	Z	—	—	—	B
82110 Furniture, household, wood, reed, or metal..	.....	FINP 8	Z	—	—	—	B
82120 Furniture and furniture parts, n.e.c., plastic.	.....	FINP 8	YZ	—	—	—	B
82120 Other furniture and furniture parts, n.e.c...	.....	FINP 8	Z	—	—	—	B
TRAVEL GOODS, HANDBAGS AND SIMILAR ARTICLES							
83100 Travel goods, handbags, and similar articles.	No.	TEXT 8	Z	—	—	—	B
CLOTHING							
84111 Men's and boys' outer garments <i>excluding shirts</i> not knit or crocheted, wholly or in chief weight of cotton or wool; and raincoats, all materials.	Lb. ¹	TEXT 8	YZ	—	—	—	B
84111 Men's and boys' outer garments <i>excluding shirts, not knit or crocheted, of other textile fabric, except raincoats.</i>	Lb. ²	TEXT 8	Z	—	—	—	B
84112 Girls', children's and infants' outer garments, <i>excludes shirts</i> , not knit or crocheted, wholly or in chief weight of cotton or wool; and raincoats, all materials.	Lb. ¹	TEXT 8	YZ	—	—	—	B
84112 Girls', children's and infants' outer garments <i>excluding shirts</i> , not knit or crocheted, <i>except of cotton or wool.</i>	Lb. ¹	TEXT 8	Z	—	—	—	B
84113 Military apparel, all materials.....	Lb. ³	TEXT 8	WXYZ	—	—	25	B

¹ Report the following in both "dozen" and "pound": cotton coats, jackets, playsuits, sunsuits, washsuits, dressing gowns and robes; and raincoats, all materials.

² Report men's and boys' outer garments of man-made fibers in both "dozen" and "pounds."

³ Report cotton, wool, and man-made fiber shirts, and wool underwear in "dozen" only. Report the following in both "dozen" and "pound": cotton undershorts and drawers; and pajamas and other nightwear of cotton or man-made fibers. Report all other undergarments in "pound" only.

January 1, 1965

Comprehensive Export Schedule

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
84113 Men's and boys' undergarments (includes shirts), not knit or crocheted, wholly or in chief weight of cotton or wool.	Lb. ¹	TEXT 8	YZ	—	—	—	B
84113 Men's and boys' undergarments (includes shirts), not knit or crocheted, <i>excluding cotton or wool.</i>	Lb. ¹	TEXT 8	Z	—	—	—	B
84114 Women's, girls' and infants' undergarments, <i>excluding blouse shirts, not knit or crocheted, wholly or in chief weight of cotton or wool.</i>	Lb.	TEXT 8	YZ	—	—	—	B
84114 Women's, girls' and infants' undergarments, (excludes blouse shirts), not knit or crocheted, <i>excluding cotton or wool.</i>	Lb.	TEXT 8	Z	—	—	—	B
84115 Women's and misses' outer garments (excluding shirts except blouse shirts), not knit or crocheted, wholly or in chief weight of cotton or wool; and rain coats, all materials.	Lb. ²	TEXT 8	YZ	—	—	—	B
84115 Women's and misses' outer garments (<i>excluding shirts other than blouse shirts</i>), <i>except of cotton or wool, not knit or crocheted.</i>	Lb. ²	TEXT 8	Z	—	—	—	B
84121 Handkerchiefs, wholly or in chief weight of cotton.	Doz.	TEXT 8	YZ	—	—	—	B
84121 Handkerchiefs, <i>excluding of cotton.</i>	Doz.	TEXT 8	Z	—	—	—	B
84125 Brassieres, corsets and girdles, <i>excluding rubber or rubberized</i> ; and suspenders, garters, and similar articles (including such articles of knit or crocheted fabric), whether or not elastic.	Lb. ³	TEXT 8	YZ	—	—	—	B
84126 Gloves and mittens, not knit or crocheted, wholly or in chief weight cotton or wool.	Doz. pr.	TEXT 8	YZ	—	—	—	B
84126 Gloves and mittens, not knit or crocheted (excluding leather), <i>excluding cotton or wool.</i>	Doz. pr.	TEXT 8	Z	—	—	—	B
84127 Cuffs and collars, wholly or in chief weight of cotton or wool; and neckties, cravats, mufflers, and scarves, not knit or crocheted, all materials.	Lb.	TEXT 8	YZ	—	—	—	B
84127 Cuffs and collars, <i>excluding cotton or wool.</i>	Lb.	TEXT 8	Z	—	—	—	B
84129 Other clothing accessories, not knit or crocheted, wholly or chief weight of cotton or wool.	Lb.	TEXT 8	YZ	—	—	—	B
84129 Other clothing accessories of textile fabric, not knit or crocheted, <i>excluding cotton or wool.</i>	Lb.	TEXT 8	Z	—	—	—	B
84130 Military apparel, leather.	Lb.	TEXT 8	XYZ	—	—	25	B
84130 Leather clothing, <i>excluding belts and gloves.</i>	Lb.	TEXT 8	Z	—	—	—	B
84130 Leather belts	Doz.	TEXT 8	Z	—	—	—	B
84130 Leather gloves, <i>excluding sports gloves.</i>	Doz. pr.	TEXT 8	Z	—	—	—	B

¹ Report cotton, wool and man-made fiber shirts, and wool underwear in "dozen" only. Report the following in both "dozen" and "pound": cotton undershorts and drawers; and pajamas and other nightwear of cotton or man-made fibers. Report all other undergarments in "pounds" only.

² Report the following in both "dozen" and "pound": cotton dressing gowns, robes, trousers, slacks, and shorts; cotton or man-made fiber coats, suits, tailored jackets, skirts, dresses, blouses, waists, and blouse shirts; and raincoats, all materials.

³ Report all items in this entry in both "dozen" and "pound".

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84130-84155

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
84130 Other clothing accessories of leather. . . . .	.....	TEXT 8	Z	—	—	—	B
84141 Gloves, knit or crocheted, wholly or in chief weight of cotton or wool.	Doz.	TEXT 8	YZ	—	—	—	B
84141 Gloves, knit or crocheted, not elastic or rubberized, <i>excluding cotton or wool.</i>	Doz. pr.	TEXT 8	Z	—	—	—	B
84142 Hosiery, not elastic or rubberized, wholly or in chief weight of cotton or wool.	Doz. pr.	TEXT 8	YZ	—	—	—	B
84142 Hosiery, not elastic or rubberized, <i>excluding cotton or wool.</i>	Doz. pr.	TEXT 8	Z	—	—	—	B
84143 Military apparel, all materials.	Lb. ¹	TEXT 8	XYZ	—	—	25	B
84143 Undergarments (includes shirts), knit or crocheted, wholly or in chief weight of cotton or wool.	Lb. ¹	TEXT 8	YZ	—	—	—	B
84143 Undergarments (includes shirts) knit or crocheted, <i>excluding cotton or wool.</i>	Lb. ¹	TEXT 8	Z	—	—	—	B
84145 Knitted or crocheted elastic fabric and articles thereof, <i>except ankle supports, knee-pads, and belts.</i>	Lb.	TEXT 8	YZ	—	—	—	B
84145 Knitted or crocheted fabric, rubberized, and articles thereof; and elastic ankle supports, knee-pads and belts.	Lb.	TEXT 8	Z	—	—	—	B
84146 Military apparel, all materials.	Lb. ²	TEXT 8	XYZ	—	—	25	B
84146 Mens' and boys' outer garments (<i>excluding shirts</i>), knit or crocheted, wholly or in chief weight of cotton or wool.	Lb. ²	TEXT 8	YZ	—	—	—	B
84146 Men's and boys' outer garments (<i>excluding shirts</i>), knit or crocheted, <i>except of cotton or wool.</i>	Lb. ²	TEXT 8	Z	—	—	—	B
84147 Women's and misses' outer garments, <i>excluding shirts</i> , knit or crocheted, wholly or in chief weight of cotton or wool.	Lb. ²	TEXT 8	YZ	—	—	—	B
84147 Women's and misses' outer garments (<i>excluding knit or crocheted</i>), <i>except of cotton or wool.</i>	Lb. ²	TEXT 8	Z	—	—	—	B
84148 Girls', children's and infants' outer garments, excludes shirts, knit or crocheted, wholly or in chief weight of cotton or wool.	Lb. ²	TEXT 8	YZ	—	—	—	B
84148 Girls', children's and infants' outer garments, <i>excluding shirts</i> , knit or crocheted, <i>except cotton or wool.</i>	Lb. ²	TEXT 8	Z	—	—	—	B
84148 Non-apparel articles, knit or crocheted, not elastic or rubberized, wholly or in chief weight of cotton or wool.	Lb. ³	TEXT 8	YZ	—	—	—	B
84148 Non-apparel articles, knit or crocheted, not elastic or rubberized, <i>excluding cotton or wool.</i>	Lb.	TEXT 8	Z	—	—	—	B
84155 Firemen hats, miners' helmets and other safety helmets. ⁴	Doz.	TEXT 8	XYZ	—	—	25	B

¹ Report the following in both "dozen" and "pound": shirts (outer) of cotton, wool, or man-made fiber; men's and boys' cotton undershirts, briefs, undershorts, and drawers; and women's, girls', and infants' pajamas and other nightwear, all materials.
² Report the following in both "dozen" and "pound": sweaters and cardigans (other than girls' and infants') of cotton, wool, or man-made fibers; all blouses and waists of cotton; and all dresses of cotton, wool, or man-made fibers.
³ Report cotton bedspreads, bedsets, towels, and washcloths in both "number" and "pound."
⁴ Military helmets require export authorization from the Department of State. See paragraph 370.5(a).

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Comprehensive Export Schedule

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
84155 Millinery, hats and caps (including helmets), <i>excluding feathers, fur felt, wool felt, fur, leather, rubber or rubberized fabric; and except firemen hats, miners' helmets and other safety or military helmets.</i> ¹	Doz.	TEXT 8	YZ	—	—	—	B
84155 Millinery, hats, and caps, of feathers, fur felt, wool felt, fur, leather, rubber or rubberized fabric.	Doz.	TEXT 8	Z	—	—	—	B
84160 Apparel and clothing accessories (including surgeons' gloves), rubber or rubberized, <i>excluding aprons; bandeaux, ladies'; bathing suits; bust supporters; capes; dress shields; infants' bibs, bloomers, diapers, and pants; reducing clothing; sanitary belts; and waterproof sleeves.</i>	Lb. ²	TEXT 8	YZ	—	—	—	B
84160 Apparel and clothing accessories, rubber or rubberized, as follows: gloves, <i>excluding surgeons'; aprons; bandeaux, ladies'; bathing suits; bust supporters; capes; dress shields; infants' bibs, bloomers, diapers, and pants; reducing clothing; sanitary belts; and waterproof sleeves.</i>	Lb. ²	TEXT 8	Z	—	—	—	B
84201 Articles of furskin.....	Lb.	TEXT 8	Z	—	—	—	B
84202 Artificial fur and articles thereof.....	Lb.	TEXT 8	YZ	—	—	—	B
84999 Clothing donated for relief or charity by individuals or private agencies.	.....					
<p>FOOTWEAR</p>							
85100 Nonmilitary spats, leggings, and gaiters wholly or in chief weight cotton.	Pr.	TEXT 8	YZ	—	—	—	B
85100 Other nonmilitary spats, leggings and gaiters of material other than canvass or fabrics wholly or in chief weight cotton.	Pr.	TEXT 8	Z	—	—	—	B
<p>PROFESSIONAL, SCIENTIFIC AND CONTROLLING INSTRUMENTS: PHOTOGRAPHIC AND OPTICAL GOODS, WATCHES, AND CLOCKS</p>							
<p>Optical elements, unmounted:</p>							
86111 Optical elements specially designed for infrared or ultraviolet communications or detection equipment. (Specify by name and type.) ³	No.	RARA 1	TVWXYZ	500	50	—	A
86111 Optical elements specially designed for equipment providing amplification or oscillation by means of stimulated electromagnetic radiation, such as Masers, Lasers, or Irasers. (Specify by name and type.)	No.	RARA 1	TVWXYZ	500	50	—	A

Export controls applicable to each commodity under this classification are those which apply to the commodity when exported commercially under its Export Control Commodity-number.

¹ Military helmets require export authorization from the Department of State. See paragraph 370.5 (a).

² Report household and surgical gloves in "dozen pair" instead of "pound."

³ See paragraph 370.5 (a) for commodities which require export authorization from the Department of State.

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86111-86133

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86111 Quartz crystals, radio grade only.....	No.	RARA 1	TVWXYZ	500	100	—	A
86111 Optical elements of monocrystalline silicon or of silicon with a purity of 99.99 percent or more.	No.	RARA 1	TVWXYZ	500	50	—	A
86111 Optical elements containing 99.9 to 99.99 percent silicon.	No.	RARA 2	TVWXYZ	500	50	—	
86111 Other optical elements, unmounted, <i>exclud- ing ophthalmic focus lenses, including contact lenses.</i>	No.	SATE 8	XYZ	—	—	25	B
86111 Ophthalmic focus lenses, including contact lenses.	Pr.	SATE 8	Z	—	—	—	B
Optical elements, mounted:							
86112 Lenses for the following cameras: air re- connaissance cameras and other cameras designed and used for military purposes; cameras specially designed for use in space vehicles; and high-speed cameras and streak cameras which are subject to the Import Certificate/Delivery Verification pro- cedure under Export Control Commodity No. 86140.	No.	FINP 5	TVWXYZ	500	—	—	A
86112 Lenses for other highspeed cameras capable of recording at rates in excess of 2,000 frames per second; and lenses for X-ray powder cameras.	No.	FINP 8	WXYZ	—	—	25	B
86112 Other photographic and projection lenses...	No.	FINP 8	XYZ	—	—	25	B
86112 Optical elements specially designed for in- frared or ultraviolet communications or detection equipment. (Specify by name and type.) ¹	No.	RARA 1	TVWXYZ	500	50	—	A
86112 Optical elements specially designed for equipment providing amplification or oscillation by means of stimulated electromagnetic radiation, such as Masers, Lasers, or Irasers. (Specify by name and type.)	No.	SATE 1	TVWXYZ	500	100	—	A
86112 Optical elements specially designed for ion microscopes having a resolving power better than 10 Angstrom units.	No.	SATE 1	TVWXYZ	500	100	—	A
86112 Electro-optical devices designed to monitor relative rotation of remote surfaces.	No.	SATE 8	WXYZ	—	—	25	B
86112 Optical elements specially designed for the following instruments: spectrum measuring in- struments; and microphotometers.	No.	SATE 8	XYZ	—	—	25	B
86112 Other mounted optical elements.....	No.	SATE 8	XYZ	—	—	25	B
86120 Protective spectacles and goggles (safety equipment).	No.	SATE 8	Z	—	—	—	B
86120 Spectacles and spectacle frames, <i>excluding protective spectacles and goggles (safety equip- ment.)</i>	.....	SATE 1	TVWXYZ	500	100	—	A
86133 Ion microscopes having a resolving power better than 10 angstrom units and specialized parts and accessories, n.e.c.							

¹ See paragraph 370.5(a) for commodities which require export authorization from the Department of State.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86133 Other microscopes and diffraction apparatus, electron and proton, and parts and accessories.	.....	SATE 8	XYZ	—	—	25	B
86134 Microscopes, <i>excluding electron and proton...</i>	No.	SATE 8	XYZ	—	—	25	B
86134 Compound optical microscopes, microprojectors, photomicrographic equipment, and parts and accessories, <i>excluding malaria survey sets containing microscopes; microscope illuminators; microscope slide boxes.</i>	.....	SATE 8	XYZ	—	—	25	B
86134 Malaria survey sets containing microscopes; microscope illuminators; microscope slide boxes.	.....	SATE 8	Z	—	—	—	B
86135 Telescopes (including astronomical telescopes).	.....	SATE 8	XYZ	—	—	25	B
86139 Power-controlled searchlights designed for military use (specify by name).	No.	ELME 1	TVWXYZ	500	—	—	A
86139 Parts and accessories, n.e.c., specially fabricated for power controlled searchlights designed for military use.	.....	ELME 1	TVWXYZ	500	—	—	A
86139 Optical appliances, n.e.c., and parts and accessories, n.e.c., <i>excluding folding magnifiers and other magnifying glasses.</i>	No.	SATE 8	XYZ	—	—	25	B
86139 Folding magnifiers and other magnifying glasses.	No.	SATE 8	Z	—	—	—	B
Photographic cameras (excluding motion picture) and flashlight apparatus, and parts. ¹							A
86140 Cameras specially designed for use in space vehicles. (Specify by name and model number.)	No.	FINP 5	TVWXYZ	500	—	—	A
86140 Streak cameras having writing speeds of 8 mm. microsecond and above, capable of recording events which are not initiated by the camera mechanism. ²	No.	FINP 5	TVWXYZ	500	—	—	A
86140 High speed cameras having any of the following characteristics: (a) using film widths 35 mm. or narrower and capable of recording at rates in excess of 3,000 frames per second when using a steady light flow as the lighting source and 10,000 frames per second when using flash equipment connected to the unwinding system as the lighting source, (b) using film widths greater than 35 mm. and capable of recording in excess of 64 frames per second, or (c) capable of recording in excess of 250,000 frames per second.	No.	FINP 5	TVWXYZ	500	—	—	A
86140 Other high speed cameras capable of recording at rates in excess of 2,000 frames per second.	No.	FINP 8	WXYZ	500	—	25	B
86140 X-ray powder cameras.....	No.	FINP 8	WXYZ	—	—	25	B
86140 Other still cameras (including photocopying, microfilming, blueprinting, vandyke and white printing cameras), <i>excluding hand type fixed focus still cameras.</i>	No.	FINP 8	XYZ	—	—	25	B

¹ See paragraph 370.5(a) for commodities which require export authorization from the Department of State.
² Streak cameras are cameras designed to record the intensity of a light source as a function of time and of a single spatial dimension, by moving the image of the source along the film in a single direction.

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86140-86161

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86140 Hand type still cameras, fixed focus.....	No.	FINP 8	Z	—	—	—	B
86140 Parts and accessories, n.e.c., specially fabricated for the following: (a) air reconnaissance cameras (b) other cameras designed and used for military purposes, ¹ (c) cameras specially designed for use in space vehicles, and (d) high-speed cameras and streak cameras under Export Control Commodity No. 86140 which are subject to the Import Certificate/Delivery Verification procedure.	.....	FINP 5	TVWXYZ	500	25	—	A
86140 Parts and accessories, n.e.c., specially designed for the following: other high speed cameras capable of recording at rates in excess of 2,000 frames per second, and (b) X-ray powder cameras.	.....	FINP 8	WXYZ	—	—	25	B
86140 Parts and accessories, n.e.c., for other still cameras (including photocopying, microfilming, blueprinting, vandyke and white printing cameras), excluding hand type fixed focus still cameras.	.....	FINP 8	XYZ	—	—	25	B
86140 Parts and accessories, n.e.c., for hand type fixed focus still cameras.	.....	FINP 8	Z	—	—	—	B
86140 Photographic micro-flash equipment capable of giving a flash of 1/100,000 second or shorter duration at a minimum recurrence frequency of 200 flashes per second.	.....	FINP 5	TVWXYZ	500	25	—	A
86140 Other photographic flashlight apparatus....	.....	FINP 8	XYZ	—	—	25	B
Motion picture cameras, projectors, sound recorders, and sound reproducers, and parts:							
86150 Motion picture cameras over 16 mm.; 16 mm. sound motion picture projectors; and silent and sound motion picture projectors over 16 mm.	No.	FINP 8	XYZ	—	—	25	B
86150 16 mm. motion picture cameras; and 16 mm. silent motion picture projectors.	No.	FINP 8	Z	—	—	—	B
86150 Sound recording and reproducing equipment and parts; parts for motion picture cameras over 16 mm.; parts for 16 mm. sound motion picture projectors; and parts for silent and sound motion picture projectors over 16 mm.	.....	FINP 8	XYZ	—	—	25	B
86161 8 mm. sound motion picture projectors....	No.	FINP 8	XYZ	—	—	25	B
86161 8 mm. motion picture cameras; and 8 mm. silent motion picture projectors.	No.	FINP 8	Z	—	—	—	B
86161 Sound recording and reproducing equipment and parts; and parts for 8 mm. sound motion picture projectors.	.....	FINP 8	XYZ	—	—	25	B
86161 Parts for: motion picture cameras; and silent motion picture projectors.	.....	FINP 8	Z	—	—	—	B
86161 Photographic projectors, enlargers and reducers (other than motion picture), and parts, excluding 16 mm. miniature still picture projectors, and parts; and photo scales (enlarger parts).	.....	FINP 8	XYZ	—	—	25	B
86161 16 mm. miniature still picture projectors, and parts; and photo scales (enlarger parts).	.....	FINP 8	Z	—	—	—	B

¹ See paragraph 370.5(a) for commodities which require export authorization from the Department of State.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86169 Motion picture screens; motion picture developing, printing, fixing or washing tanks or machines; and the following professional and commercial equipment (other than motion picture): analyzers; cutting boards; developing equipment; halftone glass screens; photo baths, glass; photo blotters; print rollers; printing frames; printing masks; and shading machines.	.....¹	FINP 8	Z	—	—	—	B
86169 Other photographic equipment, n.e.c., excluding exposure meters, including parts.	.....	FINP 8	XYZ	—	—	25	B
86171 Surgical and medical apparatus, n.e.c., wholly made of polytetrafluoroethylene.	.....	SATE 1	TVWXYZ	500	25	—	A
86171 Dental hand instruments and tools for use with hand pieces, and parts.	.....	FINP 8	XYZ	—	—	25	B
86171 Other medical, dental, surgical, ophthalmic and veterinary instruments and apparatus, excluding electro-medical.	.....	FINP 8	Z	—	—	—	B
86172 Whirlpool baths .....	.....	SATE 8	XYZ	—	—	25	B
86172 Other mechanical physical therapy appliances and respiratory appliances.	.....	SATE 8	Z	—	—	—	B
86181 Gas or liquid supply meters. [Report parts in Export Control Commodity No. 86199.]	No.	GIEQ 8	XYZ	—	—	25	B
86182 Tachometers for aircraft engines. [Report parts in Export Control Commodity No. 86199.]	.....	TRAN 2	TVWXYZ	500	500	—	E-2
86182 Speedometers, tachometers, and other counting devices for motor vehicles. [Report parts in Export Control Commodity No. 86199.]	.....	TRAN 8	XYZ	—	—	25	B
86182 Stroboscopes containing one or more electronic components. [Report parts in Export Control Commodity No. 86199.]	No.	GIEQ 2	TVWXYZ	500	100	—	
86182 Other stroboscopes. [Report parts in Export Control Commodity No. 86199.]	No.	GIEQ 8	XYZ	—	—	25	B
86182 Other revolution counters, production counters and similar counting devices, excluding those for which measurement is based on an electrical phenomenon. [Report parts in Export Control Commodity No. 86199.]	.....	GIEQ 8	XYZ	—	—	25	B
86191 Cryogenic equipment, as follows: (a) equipment designed for maintaining an ambient temperature below minus 130° C. (minus 202° F.), designed for use in marine, airborne, or space applications, ruggedized for mobile ground use, or designed to maintain operating temperatures for electrical, magnetic or electronic equipment or components, and (b) electrical, magnetic or electronic equipment or components and electrical conductors specially designed for operation continuously or discontinuously at ambient temperatures below minus 130° C. (minus 202° F.); and specially fabricated accessories, sub-assemblies, parts, or components.	SATE 1	TVWXYZ	500	100	—	A

¹ Report motion picture screens in "number."

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Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86191 Other instruments specially designed to operate at temperatures below 130° C.; and specially designed parts and accessories.	SATE 2	TVWXYZ	500	100	—	
86191 Compasses and gyroscopic equipment as follows: (a) gyro compasses, North-seeking only, possessing one or more of the following characteristics: (i) automatic correction for the effects on compass accuracy of changes in ship's speed, acceleration, or latitude, (ii) provision for accepting ship's data as an electrical input, (iii) provision for setting in corrections for current set and drift, (iv) utilization of accelerometer, rate gyro, rate integrating gyros, or electrolytic levels as sensing devices; (v) provision for determining and electrically transmitting ship's level reference data (roll, pitch) in addition to own ship's course data; (b) integrated flight instrument systems for aircraft which include gyro-stabilizers and/or automatic pilots, (c) gyro-magnetic compasses, (d) gyro-astro compasses and other devices which derive position and/or orientation by means of automatically tracking celestial bodies; (e) gyro-stabilizers used for other purposes than aircraft control, <i>excluding those for stabilizing an entire surface vessel</i> ; (f) automatic pilots used for other purposes than aircraft control <i>excluding marine type for surface vessels</i> ; (g) gyroscopes and accelerometers of very high precision and miniaturized gyroscopes and accelerometers which are designed for use in inertial navigation systems or in guidance systems of all types; (h) gyros and gyro compasses with a minimum rated free directional drift rate (minimum rate free-precision) of 1 degree per hour or less; (i) and specially designed parts and accessories, n.e.c. (Specify by name and model number.)	SATE 1	TVWXYZ	500	100	—	A
86191 Other gyro compasses (specify by name and model number); and parts and accessories, n.e.c. (Specify by name).	SATE 2	TVWXYZ	500	100	—	
86191 Aircraft flight instruments, <i>except types in normal civil use</i> . (Specify by name and model number); and specially designed parts and accessories, n.e.c.	SATE 1	TVWXYZ	500	100	—	A
86191 Other aircraft flight instruments (specify by name and model or type number); and specially designed parts and accessories, n.e.c.	SATE 2	TVWXYZ	500	500	—	E-2
86191 Electro-optical instruments designed to monitor relative rotation of remote surfaces; and specially designed parts and accessories, n.e.c.	SATE 1	TVWXYZ	500	100	—	A
86191 Ball-and-disc or cylinder-and-ball mechanical integrators; and mechanical ball resolvers; and specially designed parts and accessories, n.e.c.	SATE 1	TVWXYZ	500	100	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups ^a Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86191 Parts and accessories specially fabricated for military phototheodolites, stereoscopic plotting equipment, and photo interpretation equipment. ¹	.....	SATE 1	TVWXYZ	500	—	—	A
86191 Gravity meters (gravimeters), designed or modified for airborne or marine use (specify by name); and specially designed parts and accessories, n.e.c.	.....	CONS 5	TVWXYZ	500	100	—	A
86191 Other gravity meters (gravimeters) (specify by name); and specially designed parts and accessories, n.e.c.	.....	CONS 6	TVWXYZ	500	100	—	
86191 Transits, photo-theodolites, and tachymeters (tacheometers) having a telescope magnification of 20x or higher and reading direct to 1 sexagesimal minute or better; and specially designed parts and accessories, n.e.c.	.....	SATE 8	WXYZ	—	—	25	B
86191 Other compasses; and other surveying, hydrographic, navigational, meteorological, hydrological, and geophysical instruments, excluding those in which measurement is based on an electrical phenomenon; and parts.	.....	SATE 8	XYZ	—	—	25	B
86191 Range finders specially designed for the following: air reconnaissance cameras and other cameras specially designed and used for military purposes; cameras specially designed for use in space vehicles; and high-speed cameras and streak cameras under Export Control Commodity No. 86140 which are subject to the Import Certificate/Delivery Verification procedure.	No.	FINP 5	TVWXYZ	500	25	—	A
86191 Range finders specially designed for: (a) other high speed cameras capable of recording at rates in excess of 2,000 frames per second; and (b) X-ray powder cameras.	No.	FINP 8	WXYZ	—	—	25	B
86191 Range finders for other still cameras, excluding hand-type fixed focus; and motion-picture cameras, excluding 16 mm. and 8 mm.	No.	FINP 8	XYZ	—	—	25	B
86191 Range finders for hand-type fixed focus cameras; and for 16 mm. and 8 mm. motion picture cameras.	No.	FINP 8	Z	—	—	—	B
86191 Range finders, specially designed for transits having a telescope magnification of 20x or higher and reading direct to 1 sexagesimal minute or better.	No.	SATE 8	XYZ	—	—	25	B
86191 Other range finders. ¹	No.	SATE 8	Z	—	—	—	B
86192 Laboratory balances, excluding those in which measurement is based on an electrical phenomenon; and parts. Drawing, marking-out, calculating, drafting, measuring and checking instruments, appliances and machines (excluding those in which measurement is based on an electrical phenomenon), and parts:	.....	SATE 8	XYZ	—	—	25	B

¹ Range finders require export authorization from the Department of State. See paragraph 370.5(a).

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86193-86195

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86193 Electro-optical instruments designed to monitor relative rotation of remote surfaces; and specially designed parts and accessories, n.e.c.	SATE 1	TVWXYZ	500	—	—	A
86193 Ball-and-disc or cylinder-and-ball integrators; and mechanical ball resolvers, and specially designed parts and accessories, n.e.c.	SATE 1	TVWXYZ	500	—	—	A
86193 Size measuring machines and instruments, n.e.c., and specially designed parts and accessories, n.e.c.	TOOL 8	WXYZ	—	—	25	B
86193 Measuring and checking instruments, appliances and machines for automotive maintenance (includes wheel balancers), and parts.	TRAN 8	XYZ	—	—	25	B
86193 Other drawing, drafting, marking-out and calculating instruments.	SATE 8	Z	—	—	—	B
86193 Other measuring and checking instruments, appliances and machines, <i>excluding those in which measurement is based on an electrical phenomenon.</i>	GIEQ 8	XYZ	—	—	25	B
86194 Technical models for demonstration..... Mechanical appliances for testing physical properties of industrial materials, excluding those in which measurement is based on an electrical phenomenon. [Report parts in Export Control Commodity No. 86199]:	FINP 8	XYZ ¹	—	—	25	B
86195 Centrifugal-action testing equipment. (Specify by name.)	GIEQ 1	TVWXYZ	500	100	—	A
86195 Environmental-chambers capable of simulating any of the following conditions over the whole range of altitudes from sea level to 75,000 feet or above: temperature, pressure, radiation, or humidity.	GIEQ 1	TVWXYZ	500	—	—	A
86195 Equipment capable of performing tests at temperatures below minus 130° C.	GIEQ 1	TVWXYZ	500	100	—	A
86193 Testing equipment specially designed for use in the manufacture and assembly of communication, navigation, direction-finding, and radar equipment.	GIEQ 1	TVWXYZ	500	—	—	A
86195 Testing and inspecting machines specially designed for the examination, testing, and checking of arms, munitions, and implements of war. ²	GIEQ 1	TVWXYZ	500	—	—	A
86195 Vibration testing equipment capable of providing a thrust greater than 2,000 pounds.	GIEQ 1	TVWXYZ	500	500	—	A
86195 Testing devices specially designed for testing electronic assemblies produced by: (a) depositing or printing on insulating panels, plates, or wafers or otherwise forming <i>in situ</i> component parts other than basic wiring, or (b) automatically inserting and/or soldering components on insulating panels, plates, or wafers to which wiring is applied by printing or other means.	GIEQ 1	TVWXYZ	500	—	—	A

¹ A validated license is also required for other destinations where the commodity meets criteria set forth in Part 385.

² Arms, munitions, and implements of war are all items designated in paragraph 370.5 (a), categories I-XVI.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86195 Testing and inspecting equipment specially designed for use in the production of types of electronic tubes, transistors, and crystal diodes included under Export Control Commodity No. 72930, which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name.)	GIEQ 1	TVWXYZ	500	—	—	A
86195 Other testing and inspecting equipment specially designed for use in the production of electronic tubes, transistors and crystal diodes. (Specify by name.)	GIEQ 2	TVWXYZ	500	—	—	
86195 Other mechanical appliances for testing physical properties of industrial materials (excluding those in which measurement is based on an electrical phenomenon).	GIEQ 8	XYZ	—	—	25	B
86196 Laboratory type hydrometers and similar instruments, thermometers, pyrometers, barometers, hygrometers, psychrometers, and any combination of these, excluding those in which measurement is based on an electrical phenomenon. [Report parts in Export Control Commodity No. 86199.]	SATE 8	XYZ	—	—	25	B
86196 Other hydrometers, thermometers, pyrometers, barometers, hygrometers, psychrometers, and any combination of these, excluding those in which measurement is based on an electrical phenomenon and excluding household and clinical thermometers. [Report parts in Export Control Commodity No. 86199.]	GIEQ 8	XYZ	—	—	25	B
86196 Household and clinical thermometers..... Instruments for measuring, checking or automatically controlling the flow, depth, pressure or other variables of liquids or gases, or for automatically controlling temperature, excluding those in which measurement is based on an electrical phenomenon. [Report parts in Export Control Commodity No. 86199]:	FINP 8	Z	—	—	—	B
86197 Cryogenic equipment, as follows: (a) equipment designed for maintaining an ambient temperature below minus 130° C. (minus 202° F.), designed for use in marine, airborne or space applications, ruggedized for mobile ground use, or designed to maintain operating temperatures for electrical, magnetic or electronic equipment or components, and (b) electrical, magnetic or electronic equipment designed for operation continuously or discontinuously at ambient temperatures below minus 130° C. (minus 202° F.)	SATE 1	TVWXYZ	500	100	—	A
86197 Other instruments capable of maintaining an ambient temperature below minus 130° C.	SATE 2	TVWXYZ	500	100	—	
86197 Flow meters, level regulators, liquid level gauges, pressure gauges, pressure regulators and similar aircraft instruments.	TRAN 2	TVWXYZ	500	500	—	E-2

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86197-86198

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86197 Meters with inlet or outlet diameter 10 inches or larger, specially designed to measure flow in petroleum and/or natural gas pipe lines.	GIEQ 2	VWXYZ	—	100	—	E-9
86197 Instruments or devices capable of automatically measuring the speed of sound <i>in situ</i> in water, and rated for differential sensitivity measurements of 1 part in 5,000 parts or better; equipment containing such instruments or devices.	SATE 1	TVWXYZ	500	100	—	A
86197 Motor vehicle instruments.....	TRAN 8	XYZ	—	—	25	B
86197 Other instruments for measuring, checking or automatically controlling the flow, depth, pressure or other variables of liquids or gases or for automatically controlling temperature, <i>excluding those in which measurement is based on an electrical phenomenon.</i>	GIEQ 8	XYZ	—	—	25	B
Instruments for physical or chemical analysis; instruments for checking viscosity, porosity, expansion, surface tension, etc., instruments for measuring or checking quantities of heat, light or sound, <i>excluding those in which measurement is based on an electrical phenomenon, and parts:</i>							
86198 Laboratory instruments capable of maintaining an ambient temperature below minus 130° C., and specially designed parts and accessories n.e.c. (Specify by name.)	SATE 1	TVWXYZ	500	100	—	A
86198 Cord treating and testing laboratory units (for example, Computreators®), and specially designed parts and accessories, n.e.c.	SATE 2	TVWXYZ	500	500	—	
86198 Mass spectrographs and mass spectrometers, as follows: (a) all multifocus types (including double focus, tandem, and cyclodial); or (b) single focus types possessing a radius of curvature of 5 inches or more. (Specify by name, model, and number.)	No.	SATE 1	TVWXYZ	500	—	—	A
86198 Other mass spectrographs and mass spectrometers, <i>excluding mass spectrometer-type leak detectors.</i> (Specify by name and model number.)	No.	SATE 2	TVWXYZ	500	—	—	
86198 Spectrum measuring instruments, optical, and specially designed parts and accessories.	SATE 8	WXYZ	—	—	25	B
86198 Densitometers, and specially designed parts and accessories, n.e.c.	SATE 8	WXYZ	—	—	25	B
86198 Other laboratory instruments for physical or chemical analysis; instruments for checking viscosity, porosity, expansion, surface tension, etc., instruments for measuring or checking quantities of heat, light or sound; and parts.	SATE 8	XYZ	—	—	25	B
86198 Fluid stream analyzers, and specially designed parts and accessories, n.e.c.	GIEQ 2	TVWXYZ	500	100	—	

® Trademark registered in Patent Office of the United States.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86198 Instruments capable of operating or performing tests at temperatures below minus 130° C., and specially designed parts and accessories, n.e.c.	GIEQ 7	TVWXYZ	500	100	—	A
86198 Centrifugal action testing equipment (specify by name), and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
86198 Environmental chambers capable of simulating any of the following conditions over the whole range of altitudes from sea level to 75,000 feet or above: temperature, pressure, radiation, or humidity; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	—	—	A
86198 Testing equipment, including components and sub-assemblies, specially designed for use in the manufacture and assembly of communication, navigation, direction-finding, and radar equipment; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	—	—	A
86198 Testing and inspecting equipment specially designed for the examination, testing and checking of arms, munitions, and implements of war; and specially designed parts and accessories, n.e.c.	GIEQ 1	TVWXYZ	500	100	—	A
86198 Vibration testing equipment capable of providing a thrust greater than 2,000 lbs., and specialized ancillary equipment therefor.	GIEQ 3	TVWXYZ	500	—	—	A
86198 Other instruments for physical or chemical analysis; instruments for checking viscosity, porosity, expansion, surface tension, etc., instruments for measuring or checking quantities of heat, light or sound (in which measurement is not based on an electrical phenomenon), and parts, <i>except photographic exposure (light) meters, and parts.</i>	GIEQ 8	XYZ	—	—	25	B
86198 Photographic exposure (light) meters, and parts. Parts and accessories, n.e.c., for integrating meters, electrical measuring and controlling instruments, and industrial and laboratory instruments (meters and instruments under Export Control Commodity Nos. 72951, 72952, 86181, 86182, 86195, 86196, and 86197):	FINP 8	XYZ	—	—	25	B
86199 Parts and accessories made wholly of fluorocarbon polymers and/or copolymers. (Specify by name.)	RESN 1	TVWXYZ	500	25	—	A E-3
86199 Parts and accessories, n.e.c., specially designed for magnetometers (including gaussmeters) of the following types: (a) fluxgate, (b) electron beam sensing, (c) paramagnetic, ¹ (d) nucleonic, or (e) Hall effect, <i>excluding those which use general purpose Hall field probes to measure magnetic fields greater than one oersted using control current between 100 and 400 milliamperes.</i>	ELME 1	TVWXYZ	500	100	—	A

¹ The term "paramagnetic" as used in this entry refers to the sensing of changes in magnetic field strength by measurement of the effects of such changes in the electron spin phenomena.

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86199-86242

Commodity Control List—399.1

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86199 Parts and accessories, n.e.c., specially designed for recording oscillographs used as readout units for telemetering and telecontrol equipment suitable for use with space vehicles or aircraft (piloted or pilotless).	.....	ELME 1	TVWXYZ	500	100	—	A
86199 Parts (including positive ion sources), assemblies, components and accessories, n.e.c., specially designed for the mass spectrographs and mass spectrometers, included under Export Control Commodity No. 72952, which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name.)	.....	SATE 1	TVWXYZ	500	25	—	A
86199 Parts and accessories, n.e.c., for other mass spectrographs and mass spectrometers. (Specify by name.)	.....	SATE 2	TVWXYZ	500	25	—	
86199 Direct current amplifiers, amplifying by whatever means, having a noise level (referred to the input circuit) of 10 ⁻¹⁶ watts or less and/or a zero drift in 1 hour corresponding to a change in input power of 10 ⁻¹⁶ watts or less.	.....	RARA 1	TVWXYZ	500	100	—	A
86199 Other amplifiers designed: (a) for use in nuclear measurements, or (b) to operate at frequencies from 300 up to and including 500 megacycles. (Specify by name and model number.)	.....	RARA 2	TVWXYZ	500	100	—	
86199 Oscilloscope amplifiers and preamplifiers having a bandwidth greater than 5 megacycles up to and including 12 megacycles.	.....	ELME 8	WXYZ	—	—	25	B
86199 Other parts and accessories, n.e.c., for integrating meters, electrical measuring and controlling instruments, and industrial and laboratory instruments classified under Export Control Commodity Nos. 72951, 72952, 86181, 86182, 86195, 86196, and 86197. (Specify instrument.)	.....	Export controls applicable to commodities included in this entry are those which apply to the instrument for which the parts and accessories are designed.					
Photographic and cinematographic supplies: 86230 Chemical products and flashlight materials of a kind used in photography, put up in measured portions or for retail sale.	Lb.	FINP 8	XYZ	—	—	25	B
86241 Photographic plates and film in the flat (excluding those of paper, paperboard or cloth), sensitized, unexposed.	Sq. ft.	FINP 8	XYZ	—	—	25	B
86242 Motion picture film, sensitized, unexposed, 35 mm. and over.	Lin. ft.	FINP 8	XYZ	—	—	25	B
86242 Still picture film in rolls, including X-ray film in rolls, sensitized, unexposed (includes rolls in cartridges).	Sq. ft.	FINP 8	XYZ	—	—	25	B
86242 Motion picture film, sensitized, unexposed 16 mm. and 8 mm.	Lin. ft.	FINP 8	Z	—	—	—	B

RULES AND REGULATIONS

Commodity Control List—399.1

86243-86300

CCL-180A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86243 Paper, paperboard and cloth, sensitized, not developed.	Sq. ft.	FINP 8	XYZ ¹	—	—	25	B
86248 Exposed sensitized plates, and exposed and developed plates, <i>excluding lantern slides.</i>	Sq. ft.	FINP 8	XYZ ¹	—	—	25	B
86248 Still picture film, exposed, or exposed and developed, positive or negative; and lantern slides.	Sq. ft.	FINP 8	Z ¹	—	—	—	B
86300 Motion picture films, silent or sound, undeveloped negative, 35 mm. or over.	Lin. ft.	FINP 8	XYZ ¹	—	—	25	B
86300 Motion picture films, silent or sound, exposed or exposed and developed, <i>excluding undeveloped negative, 35 mm. or over.</i>	Lin. ft.	FINP 8	Z ¹	—	—	—	B
86300 Motion picture films, silent or sound, developed.	Lin. ft.	FINP 8	None ¹	—	—	—	B

¹ A validated license may be required if the commodity contains technical data. See Part 385.

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Commodity Control List—399.1

86401-89112

CCL-181

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
86401 Time clocks and other time recording devices, operated by a watch or clock type movement or by a synchronous motor.	No.	FINP 8	XYZ	—	—	25	B
86401 Parts and accessories, n.e.c., for time clocks and other time recording devices operated by a watch or clock type movement or by a synchronous motor.	.....	FINP 8	XYZ	—	—	25	B
86401 Electric clocks, <i>excluding alarm and mantel; and non-electric clocks, excluding 8-day alarm clocks, and novelty clocks.</i>	No.	FINP 8	YZ	—	—	—	B
86401 Electric clocks, alarm and mantel; and non-electric 8-day alarm clocks, and novelty clocks.	No.	FINP 8	Z	—	—	—	B
86402 Parts for clocks (other than time clocks and other time recording devices), <i>excluding clock chimes, dials and glasses.</i>	.....	FINP 8	YZ	—	—	—	B
86402 Watch parts, including watch movements; and clock chimes, dials and glasses.	.....	FINP 8	Z	—	—	—	B
86411 Watch cases and parts thereof.....	.....	FINP 8	Z	—	—	—	B
MISCELLANEOUS MANUFACTURED ARTICLES, N.E.C.							
89111 Magnetic recording and/or reproducing equipment designed for electronic computers. (Specify by name and model number.)	No.	SATE 1	TVWXYZ	500	100	—	A
89111 Other recording and/or reproducing equipment (including television tape recorders), n.e.c., as follows: (a) using magnetic techniques, <i>excluding those specially designed for voice or music; or</i> (b) using electrothermal and/or electrostatic techniques employing electron beams, operating in a vacuum and/or employing other means to provide a charge pattern directly on the recording surface, and specialized equipment for the read-out of material so recorded. (Specify by name and model number.)	No.	RARA 1	TVWXYZ	500	100	—	A
89111 Magnetic recording and/or reproducing equipment specially designed for seismographs.	No.	CONS 5	TVWXYZ	500	100	—	A
89111 Dictating machines, phonographs and record players.	.....	FINP 8	Z	—	—	—	B
89111 Other magnetic recorders and reproducers, <i>excluding dictating machines, phonographs, and record players.</i>	.....	RARA 8	XYZ	—	—	25	B
89112 Parts and accessories specially designed for magnetic recording and/or reproducing equipment designed for electronic computers. (Specify by name.)	.....	SATE 1	TVWXYZ	500	100	—	A

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
89112 Parts and accessories specially designed for other recording and/or reproducing equipment using magnetic, electrothermal and/or electrostatic techniques included under Export Control Commodity No. 89111 which are subject to the Import Certificate/Delivery Verification procedure. (Specify by name.)	.....	RARA 1	TVWXYZ	500	100	—	A
89112 Parts and accessories for other magnetic recorders, and reproducers, <i>excluding dictating machines, phonographs, and record players.</i>	.....	RARA 8	XYZ	—	—	25	B
89112 Parts and accessories for dictating machines, phonographs and record players.	.....	FINP 8	Z	—	—	—	B
89120 Magnetic tape and other recording media designed for electronic computers. (Specify by name.)	.....	SATE 1	TVWXYZ	500	100	—	A
89120 Other magnetic tape, <i>excluding tape specially designed for voice and music</i> ; and other recording media specially designed for the recording and/or reproducing equipment under Export Control Commodity No. 89111 which is subject to the Import Certificate/Delivery Verification procedure. (Specify by name and type.)	.....	RARA 1	TVWXYZ	500	100	—	A
89120 Other magnetic recording media (includes pre-recorded tape capable of being erased and reused).	.....	RARA 8	XYZ ¹	—	—	25	B
89120 Pre-recorded tapes not capable of being erased and reused.	.....	SATE 8	XYZ ¹	—	—	25	B
89140 Pianos and other string musical instruments .....	.....²	FINP 8	Z	—	—	—	B
89180 Musical instruments, n.e.c.....	.....³	FINP 8	Z	—	—	—	B
89190 Parts and accessories for all musical instruments (other than strings).	.....	FINP 8	Z	—	—	—	B
89213 Maps, hydrographic charts, atlases, gazetteers, globe covers, and globes (terrestrial or celestial).	.....	FINP 8	YZ	—	—	—	B
Printed matter:							
89214 Printed books, pamphlets and miscellaneous publications.	.....⁴	FINP 8	None ⁵	—	—	—	B
89220 Newspaper and periodicals, <i>excluding waste.</i>	.....⁴	FINP 8	None ⁵	—	—	—	B
89230 Music books and sheet music.....	.....	FINP 8	None ⁵	—	—	—	B
89241 Transfers (decalcomanias) .....	.....	FINP 8	Z	—	—	—	B
89242 Picture postcards and greeting cards.....	.....	FINP 8	Z	—	—	—	B
89291 Paper and paperboard labels and wrappers..	.....	FINP 8	Z	—	—	—	B
89294 Calendars (including calendar blocks) of paper.	.....	FINP 8	None ⁵	—	—	—	B

¹ A validated license is also required for other destinations where the commodity meets criteria set forth in Part 385.

² Report new pianos in "number."

³ Report new organs in "number."

⁴ Report books, catalogs, directories, and periodicals in "number."

⁵ A validated license is required if the commodity contains Technical Data. See Part 385.

Commodity Control List—399.1

89298-89300

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
89298 Advertising printed matter exclusively related to developed motion picture film, books, miscellaneous publications, newspapers and periodicals (Export Control Commodity Nos. 86300, 89201, 89202, 89220 and 89294) for which a validated license is not required.	.....	FINP 8	None ¹	—	—	—	B
89298 Other printed matter..... <i>Articles, excluding laminates and unsupported film, sheets, and other shapes of artificial plastic materials, n.e.c.:</i>	.....	FINP 8	Z	—	—	—	B
89300 Pressure sensitive tape, fluorocarbon polymer or copolymer. (Specify by name.) (See § 399.2, Interpretation 22.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
89300 Pressure sensitive synthetic tape (including metallized) suitable for dielectric use (condenser tissue), 0.0015 inch (0.038 mm. or less in thickness), excluding (a) tensilized polyester film with thickness greater than 0.001 inch (0.0254 mm.) and (b) untensilized polyester film with thickness of 0.0007 inch (0.018 mm.) up to and including 0.001 inch (0.0254 mm.).	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
89300 Pressure sensitive polyester tape suitable for dielectric use (condenser tissue), as follows: (a) tensilized film with thickness greater than 0.001 inch (0.0254 mm.) up to and including 0.0015 inch (0.038 mm.); and (b) untensilized film with thickness greater than 0.0007 inch (0.018 mm.) up to and including 0.0015 inch (0.038 mm.).	Lb.	RESN 4	TVWXYZ	500	25	—	E-3
89300 Silicone rubber manufactures, n.e.c.....	.....	RUBR 4	VWXYZ	—	500	—	E-1
89300 Manufactured products wholly made of fluorocarbon polymers and/or copolymers. (See §399.2, Interpretation 22.)	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
89300 Manufactures of polypyromellitimide; and manufactures of polybenzimidazole.	Lb.	RESN 3	TVWXYZ	500	25	—	A E-3
89300 Pressure-type hose or tubing made of or lined with polytetrafluoroethylene, with fittings attached. (Specify size, either ID or OD, length of hose or tubing, and state weight of polytetrafluoroethylene content in the hose or tubing.) [Report polytetrafluoroethylene hose or tubing without fittings attached in Export Control Commodity No. 58120.]	Pieces	RESN 3	TVWXYZ	500	25	—	A E-3
89300 Other manufactured products, n.e.c., partially made of polytetrafluoroethylene or polytrifluoroethylene. (Specify by name, and state weight of polytetrafluoroethylene or polytrifluoroethylene content.)	.....	RESN 4	TVWXYZ	500	25	—	E-3
89300 Waterproof outer garments, plastic (including raincoats).	.....	TEXT 8	YZ	—	—	—	B

¹ A validated license is required if the commodity contains technical data. See Part 385.

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
89300 Plastic flexible film specialty bags.....	Lb.	AGSU 8	Z	—	—	—	B
89300 Plastic dinnerware, tableware and kitchenware used in preparation, serving, and storing of food and drink.	.....	FINP 8	Z	—	—	—	B
89300 Manufactured plastic products, <i>excluding items wholly or partially made of polypyromellitimide, polybenzimidazole, polytetrafluoroethylene, or polytrifluorochloroethylene; or items wholly made of any fluorocarbon polymers or copolymers</i> ¹ the following only: cigar ribbons; containers for household use (soap dishes, etc.); display equipment (forms, display boxes, stands, frames); draperies (not firm, woven); garment bags (not requiring cutting or further manufacture for use); mats; sausage casings; table cloths (cut to size); venetian blinds, including separate slats and tapes; aprons, baby pants, bibs, and other indoor type wearing apparel; vinyl floor tiles; and vinyl asbestos tiles.	.....²	FINP 8	YZ	—	—	—	B
89300 Manufactured plastic products, <i>excluding items wholly or partially made of polypyromellitimide, polybenzimidazole, polytetrafluoroethylene, polytrifluorochloroethylene, or items wholly made of any fluorocarbon polymers or copolymers</i> ¹ the following only: bathroom fixtures; boxes, empty; casein plastic slides; frames (<i>excluding display frames</i>); handles; job trays; knobs; mailing cases; nursing bottles; shower curtains; stoppers for basins and bathtubs; toilet seats; and vials.	.....	FINP 8	Z	—	—	—	B
89300 Other articles (<i>excluding laminates and unsupported film, sheets and other shapes</i>) of artificial plastic materials.	.....	FINP 8	XYZ	—	—	25	B
89410 Baby and invalid carriages (not motorized nor otherwise mechanically propelled), and parts.	.....	FINP 8	Z	—	—	—	B
89421 Wheeled toys designed to be ridden, and dolls' carriages.	.....	FINP 8	Z	—	—	—	B
89422 Dolls, and specially fabricated parts and accessories, including clothing.	.....	FINP 8	Z	—	—	—	B
89423 Rubber and stuffed toys, and toys n.e.c.....	.....	FINP 8	Z	—	—	—	B
89424 Playing cards	Pk.	FINP 8	Z	—	—	—	B
89424 Coin-operated amusement machines (<i>excludes phonographs</i>); and other equipment for indoor games (<i>includes children's and adults' games and equipment for table tennis, billiards, etc.</i>)	.....	FINP 8	Z	—	—	—	B
89425 Artificial Christmas trees, metal; and tinsel of metal.	.....	FINP 8	XYZ	—	—	25	B

¹ See § 399.2, Interpretation 20.² Report sausage casings in "pounds".

Commodity Control List—399.1

89425-89600

CCL-185

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
89425 Other Christmas articles, decorative or traditional (excluding artificial flowers, foliage or fruit or articles thereof); and carnival and entertainment articles (masks, confetti, tricks and novelties). Non-military arms and parts, excluding revolvers and pistols:	.....	FINP 8	Z	—	—	—	B
89430 Sporting rifles, .22 caliber rimfire; and all sporting rifles under .22 caliber. ¹	No.	FINP 5	TVWXYZ	500	100	—	A
89430 Shotguns	No.	FINP 8	XYZ ³	—	—	25	B
89430 Components and parts for small arms as follows: (a) all components and parts for sporting rifles .22 caliber rimfire; and all sporting rifles under .22 caliber. ³	.....	FINP 5	TVWXYZ	500	50	—	A
89430 Other non-military arms and parts (excluding revolvers and pistols) (includes pistols for projecting signal flares).	.....	FINP 8	XYZ ²	—	—	25	B
89441 Fishing and hunting equipment. [Report sporting rifles in Export Control Commodity No. 89430.]	.....	FINP 8	Z	—	—	—	B
89442 Other requisites for exercise and sports, including bowling, gymnasium, archery, and playground equipment, etc.	.....	FINP 8	Z	—	—	—	B
89450 Fair-ground amusements, etc..... Office and stationery supplies, n.e.c.:	.....	FINP 8	Z	—	—	—	B
89511 Filing cabinets, racks and similar office equipment (excluding furniture), of base metal, not designed to be placed on floor.	.....	FINP 8	Z	—	—	—	B
89512 Fittings for files, paper clips, and similar stationery goods of base metals.	.....	FINP 8	Z	—	—	—	B
89521 Fountain pens, ballpoint pens, refill ink cartridges, and mechanical pencils.	Doz.	FINP 8	Z	—	—	—	B
89521 Desk pen sets; and pencil and pen parts, excluding nibs and nibpoints.	.....	FINP 8	Z	—	—	—	B
89522 Pen nibs and nib points.....	.....	FINP 8	Z	—	—	—	B
89523 Pencils (excluding mechanical), crayon pencil leads, chalks, etc.	.....⁴	FINP 8	Z	—	—	—	B
89591 Writing, stamp pads, indelible, drawing and marking inks.	.....	FINP 8	Z	—	—	—	B
89594 Typewriter and similar ribbons and ink pads.	.....	FINP 8	Z	—	—	—	B
89596 Other office and stationery supplies, n.e.c....	.....	FINP 8	Z	—	—	—	B
89600 Works of art, collectors' pieces, and antiques.	.....	FINP 8	Z	—	—	—	B

¹ Export authorization from the Department of State is required for (a) nonautomatic and semiautomatic firearms of calibers .22 and over (excluding those using only caliber .22 rimfire ammunition), and (b) all fully automatic firearms. See paragraph 370.5(a).

² A validated export license is also required for exportation to the Republic of South Africa.

³ Export authorization from the Department of State is required for (a) barrels, cylinders and breech mechanisms for non-automatic and semiautomatic firearms, caliber .22 and over (excluding those using only .22 caliber rimfire ammunition), and (b) all components and parts for automatic firearms caliber .22 and over. See paragraph 370.5(a).

⁴ Report lead pencils, black and colored, excluding artists, in "gross."

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
Jewelry and goldsmiths' and silversmiths' wares:							
89711 Jewelry of precious metal, <i>excluding rosaries and jewelry findings.</i> ¹	FINP 8	XYZ	—	—	25	B
89711 Rosaries and jewelry findings of precious metals.	FINP 8	Z	—	—	—	B
89714 Articles incorporating pearls or precious or semi-precious stones, <i>excluding articles made of precious metal or rolled precious metal.</i>	FINP 8	Z	—	—	—	B
89715 Platinum-clad molybdenum tubing; and platinum-clad molybdenum wire.	Lb.	MINL 3	TVWXYZ	500	100	—	A E-8
89715 Other platinum group metal manufactures..	FINP 8	XYZ	—	—	25	B
89715 Sterling silver, silver alloy, and gold manufactures, <i>excluding hollow ware; gold leaf and foil; and silver leaf.</i> ¹	FINP 8	XYZ	—	—	25	B
89715 Hollow ware, solid or plated, of precious metals; and silver leaf.	FINP 8	YZ	—	—	—	B
89715 Silver-plated flatware, and other silver-plated manufactures; and gold leaf and foil.	FINP 8	Z	—	—	—	B
89720 Men's and women's jewelry of metals other than solid gold, platinum, and platinum group metals, and silver.	FINP 8	XYZ	—	—	25	B
89910 Articles and manufactures of carving or moulding materials.	FINP 8	Z	—	—	—	B
89927 Hand sieves and hand riddles, laboratory types.	SATE 8	XYZ	—	—	25	B
89927 Hand sieves and hand riddles, plastic frame and mesh, <i>excluding laboratory or household types.</i>	FINP 8	XYZ	—	—	25	B
89927 Hand sieves and hand riddles, nonferrous metal frame and nonmetal mesh, <i>excluding laboratory or household types.</i>	FINP 8	XYZ	—	—	25	B
89927 Hand sieves and hand riddles, iron or steel frame and nonmetal mesh, <i>excluding laboratory or household types.</i>	FINP 8	YZ	—	—	—	B
89927 Hand sieves and hand riddles, metal mesh, <i>excluding laboratory or household types.</i>	FINP 8	YZ	—	—	—	B
89927 Hand sieves and hand riddles, household types.	FINP 8	Z	—	—	—	B
89928 Hat braids of natural or man-made fibers..	TEXT 8	YZ	—	—	—	B
89928 Other plaits and similar materials and articles thereof.	TEXT 8	Z	—	—	—	B
89929 Feather dusters	Doz.	AGRI 8	Z	—	—	—	B
89929 Brooms, brushes, paint rollers, mops, and brushes, n.e.c.	Doz.	FINP 8	Z	—	—	—	B
89931 Candles, tapers, etc.....	FINP 8	Z	—	—	—	B
89932 Matches	FINP 8	Z	—	—	—	B

¹ Export authorization is required from the Treasury Department for items of which 90 percent of the total value is attributable to gold content. See paragraph 370.5 (b).

Commodity Control List—399.1

89933-89998

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV & Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
89933 Combustible preparations and products, n.e.c.	ORGN 8	Z	—	—	—	B
89934 Cigarette and cigar lighters of precious metals.	No.	FINP 8	XYZ	—	—	25	B
89934 Mechanical, etc., lighters, <i>excluding precious metals.</i>	No.	FINP 8	Z	—	—	—	B
89935 Smoking pipes, pipe bowls, stems, cigar and cigarette holders, etc.	FINP 8	Z	—	—	—	B
89940 Umbrellas, sunshades, walking sticks, canes, etc., and parts thereof.	FINP 8	Z	—	—	—	B
89951 Powder-puffs and pads for applying cosmetics or toilet preparations.	FINP 8	Z	—	—	—	B
Buttons and button molds, cuff links, and snap fasteners:							
89952 Leatherette buttons	TEXT 8	YZ	—	—	—	B
89952 Other buttons and button molds, studs, etc., not of precious metals or stones.	FINP 8	Z	—	—	—	B
89953 Slide fasteners and parts thereof.....	FINP 8	Z	—	—	—	B
89954 Combs, barettes, and the like not of precious metal or incorporating pearls or precious stones.	FINP 8	Z	—	—	—	B
89955 Corset stays, and similar supports for apparel.	FINP 8	XYZ	—	—	25	B
89956 Scent and similar sprayers of a kind used for toilet purposes.	No.	FINP 8	Z	—	—	—	B
89957 Tailors' dummies and animated displays for window dressing.	FINP 8	Z	—	—	—	B
89961 Hearing aids	SATE 8	Z	—	—	—	B
89962 Orthopedic appliances, artificial parts of body, and fracture appliances.	SATE 8	Z	—	—	—	B
89991 Articles made from gut, etc.....	AGRI 8	Z	—	—	—	B
89992 Prepared feathers and down and articles thereof (excluding millinery).	AGRI 8	Z	—	—	—	B
89993 Artificial flowers, etc.....	TEXT 8	Z	—	—	—	B
89994 Wool prepared for making wigs, etc.....	TEXT 8	YZ	—	—	—	B
89994 Human hair, dressed or otherwise worked; and animal hair, <i>excluding wool</i> , prepared for making wigs, etc.	TEXT 8	Z	—	—	—	B
89995 Wigs, false beards, switches, etc.....	TEXT 8	Z	—	—	—	B
89996 Fans, non-mechanical, etc.....	TEXT 8	Z	—	—	—	B
89997 Vacuum bottles, jugs and chests; and parts, excluding closures and glass liners. [Report glass liners in Export Control Commodity No. 66512.]	FINP 8	XYZ	—	—	25	B
89997 Closures for vacuum bottles and jugs. [Report cork closures in Export Control Commodity No. 63300.]	AGSU 8	Z	—	—	—	B
89998 Parachute parts, <i>excluding complete canopies, harnesses, and platforms.</i> ¹	TEXT 8	XYZ	—	—	25	B

¹ Parachutes for personnel or cargo dropping and aircraft deceleration, and complete canopies, harnesses, and platforms therefor, require export authorization from the Department of State. See paragraph 370.5(a).

Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
89999 Nonmilitary ground flying trainer equip- ment. ¹	.....	TRAN 8	XYZ	—	—	25	B
<p>SECTION 9—COMMODITIES AND TRANS- ACTIONS NOT CLASSIFIED ACCORDING TO KIND</p> <p>Special transactions not classified according to kind:</p>							
93100 Value of repairs and alterations on articles exported from the United States after having been imported for such purposes. (Report total value of U.S. processing, including value of parts and labor. Do not include value of imported article.) (Specify article by name.)	.....		WXYZ	—	—	25	B
<p>Processing code and related commodity group number applicable to each commodity under this classification are those which apply to commodity under its individual Ex- port Control Commodity number.</p>							
93100 Commodities, n.e.c., donated for relief or charity by individuals or private agencies. (Specify by name.) (Report exports of commodities for re- lief or charity purposes by governmental agencies, <i>excluding used clothing</i> , under the applicable clas- sification for the commodity being exported.)							
<p>Export controls applicable to each com- modity under this classification are those which apply to the commodity when exported commercially under its individual Export Control Commodity number. In addition, see paragraph 373.65 (a) (2) (v).</p>							
93100 General merchandise valued at less than \$100, except where the shipment requires a vali- dated license. (Specify by name.)							
<p>Export controls applicable to each com- modity under this classification are those which apply to the commodity when exported commercially under its individual Export Control Commodity number.</p>							
94100 Animals, live, n.e.c., including zoo animals, dogs, cats, insects, and birds. (Specify by name.) [Report bovine cattle, sheep, lambs, goats, swine, live poultry, horses, asses, mules, hinnies, and live animals, n.e.c., for food in 001.]	.....	AGRI 8	Z	—	—	—	B
95102 Military rifles, .22 caliber rimfire. ²	No.	FINP 5	TVWXYZ	500	100	—	A
95103 Components and parts for firearms as fol- lows: (a) all components and parts for the rifles, revolvers, and pistols listed under Export Control Commodity Nos. 95102 and 95105, and (b) com- ponents and parts, <i>excluding barrels, cylinders, and breech mechanisms</i> , for other rifles, revolvers, and pistols of .22 caliber and over. (Specify caliber of firearms for which components and parts will be used.) ³	.....	FINP 5	TVWXYZ	500	50	—	A
95104 Bayonets, and specially fabricated parts and accessories, therefor.	.....	FINP 5	TVWXYZ	500	—	—	A
95104 Other sidearms, and specially fabricated parts and accessories, n.e.c.	.....	FINP 8	WXYZ	—	—	25	B

¹ Aircraft launching equipment and military ground flying training equipment require export authorization from the Department of State. See paragraph 370.5 (a).
² Export authorization from the Department of State is required for the following arms, and ammunition therefor: (a) nonautomatic and semiautomatic firearms of calibers .22 and over, excluding those using only caliber .22 rimfire ammunition, and (b) all fully automatic firearms. See paragraph 370.5 (a).
³ Export authorization from the Department of State is required for (a) barrels, cylinders and breech mechanisms for non-automatic and semiautomatic firearms, caliber .22 and over (*excluding those using only .22 caliber rimfire ammunition*), and (b) all components and parts for automatic firearms caliber .22 and over. See paragraph 370.5 (a).

Commodity Control List—399.1

95105-96100

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Department of Commerce Export Control Commodity Number and Commodity Description	Unit	Processing Code and Related Commodity Group No.	Validated License Required for Country Groups Shown Below	GLV \$ Value Limits for Shipment to Country Groups			Special Provisions List
				T	V	X	
95105 Revolvers, <i>excluding smooth bore</i> , under .22 caliber, and .22 caliber rimfire; and pistols .22 caliber rimfire. ¹ [Report parts in Export Control Commodity No. 95103.]	No.	FINP 5	TVWXYZ	500	100	—	A
95105 Revolvers, smooth bore, under .22 caliber, and .22 caliber rimfire. ¹	No.	FINP 8	XYZ	—	—	25	B
95106 Metallic cartridges usable for firearms listed under Export Control Commodity Nos. 95102 and 95105 (first entry) ¹	No.	FINP 5	TVWXYZ	500	50	—	B
95106 Metallic cartridges usable for firearms listed under Export Control Commodity No. 95105 (second entry). ¹	No.	FINP 8	XYZ	—	—	25	B
95106 Parts and accessories, n.e.c., manufactured of brass or bronze, for small arms ammunition. ²	.....	NONF 9	TVWXYZ	500	100	—	A
95106 Parts and accessories, n.e.c., manufactured of copper for small arms ammunition. ²	.....	NONF 8	XYZ	—	—	25	B
95106 Other components and parts, n.e.c., for ammunition usable for firearms listed under Export Control Commodity Nos. 95102 and 95105; and components and parts, n.e.c., for ammunition for other small arms .22 caliber and over, <i>excluding cartridge cases, bullets, jackets, cores, shells, percussion caps, primers, and other detonating devices.</i> ²	.....	FINP 5	TVWXYZ	500	100	—	A
95106 Copper, brass, and bronze components and parts for artillery, naval gun, or mortar ammunition. (Specify by name.) ²	.....	NONF 9	TVWXYZ	500	100	—	A
95106 Other components and parts for artillery, naval gun, and mortar ammunition, <i>excluding boosters, detonators, fuses and components, jackets, powder bags, primers, and projectiles.</i> ²	.....	FINP 5	TVWXYZ	500	100	—	A
95200 Military apparel of all types and materials, including footwear. (Specify by name.) ³	.....	TEXT 8 ⁴	WXYZ	—	—	25	B
96100 Coin, other than gold coin, not being legal tender. ⁵	.....	FINP 8	YZ	—	—	—	B

¹ Export authorization from the Department of State is required for (a) nonautomatic and semiautomatic firearms of calibers .22 and over *excluding those using only caliber .22 rimfire ammunition*, and (b) all fully automatic firearms. See paragraph 370.5(a).

² The following components, parts, accessories, and attachments for ammunition .22 caliber and over *excluding .22 caliber rimfire*, require export authorization from the Department of State: cartridge cases, powder bags, bullets, jackets, cores, shells (excluding shotgun), projectiles, boosters, percussion caps, fuses and components therefor, primers and other detonating devices, and ammunition belting and linking machines. See paragraph 370.5(a).

³ See paragraph 370.5(a) for military apparel which require export authorization from Department of State.

⁴ The processing code and number for military buttons is "FINP 8".

⁵ Gold coins require export authorization from the Treasury Department. See paragraph 370.5(b).

§ 399.2 Commodity interpretations.

The commodity interpretations set forth herein are for use in determining (a) the appropriate Export Control Commodity numbers under which certain commodities are classified, or (b) the validated license requirements for these commodities. They are intended to clarify the question of control where it has been demonstrated that such clarification may prove helpful to the export community, and where such control is not apparent from the Commodity Control List and the Export Regulations.

INTERPRETATION 1: PIPE: OIL COUNTRY OR LINE FOR PUMP INSTALLATION PURPOSES

A maximum of 250 feet of oil country pipe or line pipe, classified in Export Control Commodity No. 67860, may be exported under general license, except to Country Groups X, Y, and Z (see paragraph 370.1(g) of this chapter): *Provided*, Such pipe accompanies the pump requiring its use for installation purposes: *And also provided*, Such pipe is of appropriate size and type for use with that pump. A validated license is required for shipment to Country Group W of any quantity in excess of 250 feet. If, however, such pipe is being shipped separately from the pump, a validated license is required for the full amount of the shipment if it exceeds the GLV dollar value limit for the pipe.

INTERPRETATION 2: BALL AND ROLLER BEARINGS AND SPECIALLY FABRICATED PARTS

(a) A ball or roller bearing physically incorporated in a segment of a machine or in a complete machine prior to shipment loses its identity as a bearing and the machine or segment of machinery containing the bearing is the item subject to export license requirements.

(b) A ball or roller bearing not incorporated in a segment of a machine prior to shipment but shipped as a component of a complete unassembled (knocked-down) machine is considered a component of the machine, and the complete machine is the item subject to export license requirements.

(c) Ball and roller bearings shipped as spares or replacements are classified in Export Control Commodity No. 71970 (ball, roller, or needle-roller bearings and parts). This applies to separate shipments of ball and roller bearings and ball and roller bearings shipped with machinery or equipment for which they are intended to be used as spares or replacement parts.

INTERPRETATION 3: GEAR MAKING AND FINISHING MACHINERY

Certain types of gear-making and gear-finishing machines, Export Control Commodity No. 71510 require a validated license for shipments to all destinations except Canada if they are capable of producing gears finer than 48 diametral pitch. In order to clarify the meaning of the term "diametral pitch finer than 48," examples are given of how diametral pitch is computed. In addition, there is also given below an explanation of how to distinguish between "gear-tooth grinding machines, generating types" and nongenerating types of grinding machines.

"Diametral pitch" of a gear is determined by dividing the number of teeth on the gear by the length of the pitch diameter. ("Pitch diameter" is the diameter of the gear measured at those points on the gear teeth where they make contact with the teeth of a mated gear.) The larger the proportion of teeth to pitch diameter, the finer the diametral pitch.

Example of diametral pitch: If a gear has a 1-inch pitch diameter and has 48 teeth, the ratio would be 48:1, or a 48 diametral pitch gear. Additional teeth in the same pitch diameter gear, i.e., 49, would result in a finer

diametral pitch; fewer teeth, i.e., 47, would result in a gear of coarser diametral pitch.

Examination of a gear making or finishing machine may not disclose whether it is capable of producing a gear of finer than 48 diametral pitch. If the exporter has no information on the ability of the machine to be exported for making gears of finer than 48 diametral pitch, he should obtain the information from the manufacturer or distributor.

"Generating type gear-tooth grinding machines" are those in which the grinding wheel and the gear are both power-driven for continuous circular motion while grinding, rather than an intermittent or indexing operation as with the non-generating type.

INTERPRETATION 4: CLASSIFICATION OF "PARTS" OF MACHINERY, EQUIPMENT, OR OTHER ITEMS

(a) *Where an assembled machine or unit of equipment is being exported.* Where one or more assembled machines or units of equipment are being exported, the individual component parts which are physically incorporated into the machine or equipment do not require a separate validated export license. The validated license or the general license under which the complete machine or unit of equipment is exported will also cover its component parts: *Provided*, That the parts are normal and usual components of the machine or equipment being exported; or that the physical incorporation is not used as a device to evade the requirement for a validated export license.

(b) *Where parts are exported as spares, replacements, for resale, or for stock.* Where parts are exported as spares, replacements, for resale, or for stock, a validated export license is required only if the appropriate entry for the part specifies that a validated license is required for the intended destination.

(c) *Classification instructions.* Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States, issued by the Bureau of the Census, sets forth detailed instructions for the classification of "parts" for machinery, equipment, or other items.

INTERPRETATIONS 5 AND 6 [RESERVED]

INTERPRETATION 7: ELECTRONIC CLOSED LOOP FEED-BACK CONTROLS

Closed loop electronic feed-back control systems for machine tools are systems incorporating a means of sensing the position of the work piece in relation to the machine tool and automatically correcting any difference between the actual and the programmed performance on the work piece.

The entire system may be incorporated in or on the machine, or the control features may be separated from the machine but joined for operation by cables or wiring. Where shipped complete with the machine, use the proper Export Control Commodity number of the machine. When the control unit is to be shipped separately, report the unit under Export Control Commodity No. 72954.

Open loop systems may be entirely automatic, may be electronic, and may carry out a complete machining operation on the basis of a program contained on punched cards, or tape, or by other means, but they do not contain automatic sensing and correction devices.

INTERPRETATION 8: ALLOY STEEL, SPECIAL TYPES CLASS 1

The term "special types Class 1" is used in the Commodity Control List to designate certain alloy steel which is subject to the Import Certificate/Delivery Verification procedure (§ 373.2 of this chapter). For export control purposes "special types Class 1" of stainless and other alloy steel includes steels containing any of the following characteristics:

(a) Alloys with 10 percent or more molybdenum;

(b) Alloys with 5 percent or more molybdenum and more than 14 percent chromium;

(c) Alloys with 1.5 percent or more columbium and/or tantalum;

(d) Nickel-bearing stabilized steels, n.e.c., having a total of 38 percent or more alloying elements and having either 0.4 percent or more titanium or 0.8 percent or more columbium-tantalum.¹

(e) Precipitation hardening steels containing 4 percent or more nickel.²

INTERPRETATION 9: ALLOY STEEL, SPECIAL TYPES CLASS 2

The term "special types Class 2" is used in the Commodity Control List to designate certain alloy steels which required a validated license to all destinations except country groups T and V. For export control purposes "special types Class 2" of stainless and other alloy steel includes any steels not specified in "Special types Class 1" (see Interpretation 8 above) but which contain any of the following characteristics:

(a) All nickel-bearing alloy steels:

(b) Alloys containing 6 percent up to 10 percent molybdenum;

(c) Alloys containing 3 up to 5 percent molybdenum and 14 percent chromium;

(d) Alloys containing 0.25 up to 1.5 percent columbium and/or tantalum;

(e) Alloy steel mill products, semi-finished and finished, made from steel of the vacuum melt process.

INTERPRETATION 10: PARTS, ACCESSORIES, AND EQUIPMENT EXPORTED AS SCRAP

Parts, accessories, or equipment which are being shipped as scrap should be described on the Shipper's Export Declaration in sufficient detail to be identified under the proper Schedule B classification.

When commodities declared as parts, accessories, or equipment are shipped in bulk, or are otherwise not packaged, packed, or sorted in accordance with normal trade practices, the Collector of Customs may require evidence that the shipment is not scrap. Such evidence may include, but is not limited to bills of sale, orders, and correspondence indicating that the commodities are being exported as scrap and not for use as parts, accessories, or equipment.

Exporters should consult the U.S. Department of Commerce, Office of Export Control, Exporter's Service Section, Washington, D.C., 20230, or the U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division, Washington, D.C., 20233, when in doubt as to the proper classification as equipment, parts and accessories, or scrap.

INTERPRETATION 11: [RESERVED]

INTERPRETATION 12: SCRAP ARMS, AMMUNITION, AND IMPLEMENTS OF WAR

Arms, ammunition, and implements of war, as defined in the United States Munitions List (see § 370.5(a) of this chapter), are under the jurisdiction of the U.S. Department of State, with the following exceptions:

(1) Cartridge and shell cases which have been rendered useless beyond the possibility of restoration to their original identity by means of excessive heating, flame treatment, mangling, crushing, cutting, or by any other

¹ Coverage under characteristic (d) includes but is not limited to the following: A 286, Discalloy, W 545, Unitemp 212, 19-9 DX, 19-9 WX, EME, and Croloy 15-15 N.

² Coverage under characteristic (e) includes but is not limited to the following: AM 350, AM 355, CD-4MCu, 18 Ni, 20 Ni, 25 Ni, 17-4 PH, 17-7 PH, PH 15-7 Mo, PH 55, A, B, C and D, 17-10 P, 17-14 Cu. Mo., V2 B, HNM, Stainless W, and FV 520.

method are "scrap" and under the jurisdiction of the U.S. Department of Commerce.

(2) Cartridge and shell cases which have been sold by the armed services as "scrap" are under the jurisdiction of the U.S. Department of Commerce, whether or not they have been heated, flame-treated, mangled, crushed, cut, or reduced to scrap by any other method.

(3) Other commodities on the Munitions List are "scrap" and under the jurisdiction of the U.S. Department of Commerce if they have been rendered useless beyond the possibility of restoration to their original identity only by means of mangling, crushing, or cutting.

When in doubt as to whether a commodity covered by the Munitions List has been rendered useless, exporters should consult the Office of Munitions Control, U.S. Department of State, Washington, D.C., 20520, or the Office of Export Control, U.S. Department of Commerce, Washington, D.C., 20230, before reporting a shipment as metal scrap.

INTERPRETATION 13: ELECTRON TUBES (EXPORT CONTROL COMMODITY No. 72930)

The non-military versions (glass or metal) of types of electron tubes described or listed below are excepted from validated license requirements for shipments to Country Groups T and V. This exception from validated license requirements for shipments to Country Groups T and V includes any of the listed non-military type tubes which may be prefixed by a symbol described below to identify the manufacturer, or suffixed by a symbol set forth below to indicate either a minor manufacturing modification of the original tube type or the type of glass envelope. Multiple branded tubes (those with more than one type number) are excepted when one of the type numbers is excepted.

Military versions of tubes are identified by the use of the letter "W" following any standard tube designation indicated below. For example, 6J5 and 5AW4 are on the excepted list; however, 6J5W and 5AW4W are not on the excepted list since the letter "W" following the standard designation indicates that it is a military version.

A prefix which identifies the tube manufacturer is not part of the tube type number and therefore does not affect the coverage. Examples of such prefixes are: CK; EE; EL; F; GL; HK; HY; ML; NL; NU; PL; RK; TS; UE; WE; and WL.

The following suffixes indicate minor manufacturing modifications or type of glass envelope: G and GT indicate different types of glass envelopes, and A, B, C, Ne, L and Y indicate minor manufacturing modifications of the original tube type.

Any tube listed below which includes a prefix or suffix other than those described above will not be considered as excepted.

In addition to the types listed below, the following tubes are excepted from the validated license requirements for shipments to Country Groups T and V: any single-ended glass envelope tube with a standard 7-pin miniature or a 9-pin noval base, and having a basic tube type number consisting of one or two digits followed by one or two letters followed by a single digit (for example, 1S4, 6C4, 12X4, 12AU7).

01-A	1AG4	1C8
0A3	1AH4	1D3
0A4	1AJ5	1D5
0A5	1AK4	1D5-GP
0C3	1AK5	1D7
0D3	1AX2	1D8
0Z4	1B3	1E5-GP
1A3	1B4-P	1E7
1A4-P	1B5	1E8
1A5	1B7	1F5
1A6	1C	1F6
1A7	1C1	1F7
1AC5	1C5	1G3
1AD4	1C6	1G4
1AE5	1C7	1G5

1G6	3E22	6AR6
1H2	3E29	6AS7
1H4	3LF4	6AU4
1H5	3Q5	6AU5
1H6	3W5000A3	6AV5
1J3	3W5000F3	6AX3
1J5	3X2500A3	6AX4
1J6	3X2500F3	6AX5
1K3	3X3000A1	6AX6
1LA4	3X3000F1	6AZ5
1LA6	4-65A	6AZ6
1LB4	4-125A	6B
1LC5	4-250A	6B4
1LC6	4-400A	6B5
1LD5	4-1000A	6B6
1LE3	4B22	6B7
1LG5	4B23	6B8
1LH4	4B24	6B10
1LN5	4B25	6BA5
1N2	4B27	6BD4
1N5	4-B32	6BD5
1N6	4D21	6BF7
1P5	4-E27	6BG6
1P29	4E27A/5-	6BG/7
1P37	125B	6BJ4
1P39	4W20000A	6BK4
1P40	4X500A	6B/L
1P41	4X500F	6BL4
1P42	5A6	6BL7
1Q5	5AR4	6BQ6
1Q6	5AS4	6BX7
1S6	5AT4A	6BY5
1T5	5AU4	6C
1T6	5AW4	6C5
1-V	5AX4	6C6
1V2	5AZ3	6C7
1V5	5AZ4	6C8
1V6	5B	6C9
1W4	5B24	6C10
1W5	5C21	6CA4
1X2	5C24	6CA5
1Y2	5C30	6CA7
1Z2	5CG4	6CB5
2-01C	5CU4	6CD6
2-25A	5D21	6CF
2-50A	5D-22	6CH6
2-150D	5DC5M	6CL5
2-240A	5DH8	6CQ4
2-450-A	5DJ4	6CU5
2-2000A	5MD5	6CU6
2A3	5R4	6D4
2A5	5T4	6D6
2A6	5U4	6D7
2A7	5V3	6D8
2AC15	5V4	6DA4
2AS15A	5V6	6DB5
2B3	5W4	6DE4
2B7	5X3	6DG6
2D21	5X4	6DM4
2E5	5Y3	6DN6
2E24	5Y4	6DN7
2E26	5Z3	6DQ4
2E30	5Z4	6DQ5
2H21	6A3	6DQ6
2SM15	6A5	6DT4
2V2	6A6	6DY7
2X2	6A7	6DZ7
2X1000A	6A8	6E5
2X3000F	6AB5	6E6
3A2	6AB7	6E7
3A3	6AC5	6EA7
3A8	6AC7	6EP6
3B	6AD4	6EM7
3B2	6AD6	6EUS
3B5	6AD7	6EX6
3B7/1291	6AE5	6EY6
3B21	6AE6	6EZ5
3B22	6AE7	6F
3B25	6AF3	6F5
3B28	6AF6	6F6
3B29	6AG7	6F7
3C	6AH4	6F8
3C6/XXB	6AH7	6FD7
3C23	6AJ7	6FE5
3C24	6AK4	6FH6
3C31	6AK7	6FJ7
3C33	6AL3	6FM7
3CF	6AL6	6FR7
3C/L	6AL7	6FX7
3D6	6AM5	6FY7
3D22	6AM6	6FW5
3E6	6AQ7	6G6

6G11	7A6	12E5
6GA7	7A7	12EF6
6GC5	7A8	12EN6
6GC6	7AD7	12F5
6GE5	7AF7	12G11
6GF5	7AG7	12GC6
6GP7	7AH7	12GE5
6GJ5	7AJ7	12GJ5
6GL7	7AK7	12GT5
6GM5	7B4	12GW6
6GT5	7B5	12H6
6GV5	7B6	12J5
6GW6	7B7	12J7
6H6	7B8	12K7
6HB5	7C5	12K8
6HC8	7C6	12L6
6HU8	7C7	12L8
6HZ8	7C23	12Q7
6J3	7C24	12S8
6J5	7C26	12SA7
6J7	7C29	12SC7
6J8	7D21	12SF5
6J9	7E6	12SF7
6J11	7E7	12SG7
6J78	7EY6	12SH7
6JZ8	7F7	12SJ7
6K4	7F8	12SK7
6K5	7G7	12SL7
6K6	7H7	12SN7
6K7	7J7	12SQ7
6K8	7K7	12SR7
6K11	7L7	12SW7
6L5	7N7	12SX7
6L6	7Q7	12SY7
6L7	7R7	12V6
6M3	7S7	12W6
6M11	7V7	12Z3
6N6	7W7	13EM7
6N7	7X6	13FD7
6P5	7X7	13FR7
6P7	7Y4	13GF7
6Q7	7Z4	13J10
6Q11	8B10	14A4
6R4	8C25	14A5
6R7	8DC15	14A7
6S7	8DS15	14AF7
6S8	8JT8	14B6
6SA7	8SN7	14B8
6SB7	9C21	14C5
6SC6	9C22	14C7
6SC7	9C23	14E6
6SD7	9C24	14E7
6SE7	9C25	14F7
6SF5	9C28	14F8
6SF7	9C29	14H7
6SG7	9C30	14J7
6SH7	9C31	14N7
6SJ7	9EF6	14Q7
6SK7	10	14R7
6SL7	10C8	14S7
6SN7	10EG7	14W7
6SQ7	10EM7	14X7
6SR7	10EW7	14Y4
6SS7	10FD7	15
6ST7	10FR7	15A8
6SU7	10GF7	15AF11
6SV7	10JT8	15EA7
6SZ7	10Y	15FM7
6T5	11	15FY7
6T7	11AR11	16
6U4	12	16AQ3
6U5	12A4	16F
6U6	12A5	16X897
6U7	12A6	17AV5
6V3	12A7	17AX3
6V5	12A8	17AX4
6V6	12AF3	17AY3
6V7	12AH7	17BQ6
6W4	12AL11	17C5
6W5	12AV5	17C9
6W6	12AX3	17D4
6W7	12AX4	17DE4
6X5	12AY3	17DM4
6Y3	12B8	17DQ4
6Y5	12BE3	17DQ6
6Y6	12BQ6	17GE5
6Y7	12C8	17GJ5
6Z5	12CU6	17GT5
6Z7	12D4	17GV5
6ZY5	12DM4	17GW6
7A4	12DQ4	17HC8
7A5	12DQ6	17JZ8

17L6	50EH5	228R	676	1613	5771	6512	7551	ELC6J/L
17W4	50FE5	232B	677	1614	5779	6513	7558	ELC16H
18A5	50L6	232C	678	1616	5783	6514	7581	ELC16J
19	50X6	233	750TL	1619	5788	6515	7717	ELC16J/A
19AU4	50Y6	234AR	800	1620	5814	6525	7723	FC25
19BG6	50Y7	237A	801A	1621	5822	6549	7724	FG17
19Q9	50Z6	240	802	1622	5823	6550	7786	FG27A
20	50Z7	241B	803	1623	5824	6569	7868	FG32
21EX6	53	242C	804	1624	5830	6570	8000	FG33
21GY5	55	249B	805	1625	5834	6576	8002	FG41
22	56	249C	806	1626	5835	6580	8002R	FG57
22DE4	57	250R	807	1629	5855	6623	8005	FG81A
22BH3	58	250TH	808	1631	5856	6660	8008	FG95
24	59	250TL	809	1632	5867	6661	8013	FG97
24G	60B	251A	810	1633	5868	6662	8020	FG98A
25A6	65B	253	811	1634	5869	6663	8032	FG105
25A7	70A7	255B	811A	1635	5871	6664	9951	FG154
25AC5	70L7	258B	812	1701	5874	6669	C1B	FG280
25AU4	71	261A	813	1702	5875	6676	C1J	FP265
25AV5	75	266B	814	2000T	5879	6677	C1K	FP285
25AX4	75TH	267B	815	2050	5881	6678	C3J	FP400
25AX5	75TL	270A	816	2051	5890	6679	C5F14	GF166
25B5	76	276A	826	5331	5892	6680	C6J	HF60
25B6	77	279A	827R	5332	5894	6681	C16J	HF100
25B8	78	284D	828	5513	5895	6691	CE-1-C	HF120
25BQ6	79	298	829B	5517	5915	6692	CE-1-D	HF125
25C6	80	303	830B	5518	5918	6696	CE-11V-C	HF130
25CD6	81	304B	832A	5528	5919	6697	CE-21-C	HF140
25CU6	82	304TH	833A	5530	5923	6800	CE-22-C	HF150
25D4	83	304TL	834	5530H	5963	6801	CE-23-C	HF175
25D8	83-V	306	836	5531	5964	6803	CE-25-C	HF200
25DN6	84	308	837	5541	5965	6804	CE-29-R	HF201
25DQ6	84/6Z4	308B	838	5545	5973	6807	CE-30-C	HF250
25EC8	85	311CH	841	5550	5996	6808	CE-41	HF300
25L6	85A1	313C	842	5551	6000	6809	CE-42	HF3000
25N6	89	315A	845	5552	6009	6855	CE-59-R	KC4
25T	100TH	319A	846	5553	6011	6856	CE-64-R	KY21A
25W4	100TL	320	849	5554	6012	6858	CE-91-R	NL604
25W6	102	321A	849A	5555	6013	6859	CE-98-R	NL606
25X6	103	322	849H	5556	6014	6860	ELIC	NL614
25Y5	105	323B	851	5557	6015	6864	EL3B	NL615
25Z4	108	331	852	5558	6028/408A	6871	EL3C	NL616
25Z5	111H	332	857B	5558/FG32	6044	6878	EL3C/L	NL617
26Z6	112-A	333	858	5559	6046	6883	EL3CF	NL618
26	115	338A	859	5560	6075	6887	EL5BHD	NL619
26A7	117L7/M7	342A	860	5561	6076	6893	EL5BSTD	NL623
26E6	117N7	342AA	861	5564	6077	6894	EL6B	NL625
27	117P7	343A	862A	5575	6078	6895	EL6B/L	NL627
28D7	117Z3	343AA	865	5575/100	6079	6908	EL6C	NL635
28Z5	117Z4	354	866A	5576	6082	6921	EL6CF	NL643
30	117Z6	356	868	5576/200	6083	6925	EL6CL	NL649
30AG11	121	357A	869B	5581	6146	6926	EL6F	NL653
31	124A	357B	870A	5582	6147	6930	EL16F	NL710
32	124R	379	872A	5583	6155	6939	ELC1A	NL714
32L7	125A	393A	878	5584	6156	6953	ELC1B	NL715
33	126X6	394A	880	5592	6166	6973	ELC1B/A	NL716
34	127A	395A	884	5593	6179	6982	ELC1J	NL720
35	129B	404	885	5604	6211	6983	ELC1K	NL720L
35/51	-134	411	889A	5604A	6228	6989	ELC1K/B	NL730
35A5	141	414	889RA	5606	6231	7007	ELC3J	NL732
35CD6	142	440	891	5618	6256	7012	ELC3J/A	NL740
35L6	146	441	891R	5619	6257	7025	ELC3J/AL	NL741
35T	148	444	892	5630	6258	7027	ELC3J/L	NL760
35Y4	152	450TH	892R	5632	6278	7030	ELC4H1	NL761
35Z3	152TH	450TL	893A	5651	6347	7043	ELC4H2	NL1001
35Z4	152TL	468	893AR	5652	6348	7086	ELC4H3	NL1005
35Z5	154	473	895R	5653	6350	7094	ELC4H4	NL1022
35Z6	159	490	898A	5658	6356	7120	ELC4H5	NL1051
36	169	492	917	5664	6360	7121	ELC5B	NL1052
37	170	492R	918	5665	6366	7124	ELC6A	NL1053
38	172	495	919	5666	6367	7125	ELC6C	NL1054
39/44	175A	498	920	5667	6379	7185	ELC6H1	PJ21
40	177A	500	921	5668	6388/443A	7189	ELC6H2	PJ22
40A1	180	501R	922	5669	6398	7199	ELC6H3	RX21A
40B2	199	502	923	5672	6399	7206	ELC6H4	T106
41	203A	504R	924	5678	6400	7207	ELC6H5	TX-44-5
42	203H	505AX	925	5680	6405/1640	7207	ELC6J	V99
43	204A	508	926	5681	6420	7212	ELC6J/A	X99
45	207	512AX	927	5682	6421	7247	ELC6J/F	ZB60
45X674	211	520AX	928	5683	6421F	7320	ELC6J/K	ZB120
45Z5	211C	523AX	929	5684	6422	7408	ELC6J/KF	ZB3000
46	211D	569AX	930	5685	6423	7543	ELC6J/KL	ZB3200
47	211H	575A	935	5696	6423F			
48	212E	576A	954	5720	6424			
49	217C	592	955	5727	6425			
50	220C	600	956	5736	6425F			
50A1	220CA	626	991	5741	6426			
50A5	220R	629	1000T	5742	6427			
50AX6	221A	632	1500T	5762	6504			
50C6	222A	664	1809	5763	6509			
50CD6	224	670	1612	5770	6511			
50DC4	228A	673						

INTERPRETATION 14: ROTARY WELL DRILLING Rigs

A rotary well drilling rig (Export Control Commodity No. 73203 when truck mounted, and Export Control Commodity No. 71842 when not truck mounted) consists essentially of a derrick or mast, sub-structure and platform, draw-works, rotary-table, Kelly, swivel, crown and travelling blocks, wire rope, and

hose. Expensible items such as drill pipe casing, oil, grease, drilling mud, and explosives are not included in this interpretation.

Items such as the following, whether or not shipped with a drill rig, are subject to the export controls applicable under their individual Export Control Commodity numbers: rotary rock drill bits, internal combustion engines, generators, and slush pumps, Export Control Commodity Nos. 69524, 71150, 72210, and 71921, respectively. Parts and accessories, n.e.c., specially fabricated for rotary drill rigs, are subject to export controls applicable under Export Control Commodity No. 71842.

INTERPRETATION 15: OPTICAL CURVE GENERATORS

An optical curve generator as specified on the Commodity Control List under Export Control Commodity No. 71951, is defined, for export control purposes, as a machine which produces aspherical curved surfaces or is capable of producing spherical and aspherical curved surfaces on blanks of optical glass or similar material by means of a grinding wheel moving over the surface of a blank in a path of generation governed by cams and linkages which may be preset to produce a predetermined curvature.

The coverage of the entry under Export Control Commodity No. 71951 for "Optical curve generators capable of producing aspherical curves without the use of mating surfaces" is specifically limited to machines using as a surface shaping medium a grinding wheel which has diamonds or other abrasive material impregnated in its cutting surface. Lens grinders, surfacers, and polishers which produce curved surfaces by utilizing loose abrasives are not included in the entry.

INTERPRETATION 16: METAL ROLLING MILLS

A rolling mill is defined, for export control purposes, as a rolling mill stand or line of stands and accessory equipment, beginning with the approach table or uncoiler and ending with the runout table or recoller which follows the final change in shape or dimension of the metal being processed. A rolling mill rolls ferrous or nonferrous metals (a) from cast ingots or slabs into semi-fabricated or finished rolled products or (b) from semi-finished products into such rolled products as structural shapes, miscellaneous shapes, plates, pipe skelp, sheet, strip, bars, rods, tubes, pipes, etc. It may be a reversing or non-reversing or a continuous or semi-continuous mill. It may be designed for either hot or cold rolling, for producing either welded or seamless tubes and pipes, or for such operations as temper rolling (skin pass) or simultaneous surface and side rolling (universal mill).

When a complete rolling mill is being exported, the export controls specified under Export Control Commodity No. 71522 are applicable to most but not all of the equipment required for the mill. In this category are included such items as roll stands, work rolls, back-up rolls, approach tables, runout tables, manipulators, edgers, up collers, down collers, tension and pay-off reels, cooling and quenching equipment. Electric motors and control devices (electric, electronic and/or hydraulic) are considered a part of the rolling mill only when included in the original installation of the mill. However, when sent as replacement parts they are subject to controls applicable to the specific item (for example, electric motors, motor controls, and industrial process controls, Export Control Commodity Nos. 72210, 72220, and 72952, respectively).

Auxiliary equipment which is used with a rolling mill but is not a part of the mill is subject to the controls applicable to the specific type of equipment, even though such equipment is exported with the mill. For

example, electric generators are subject to controls specified under Export Control Commodity No. 72210; roll grinders, roll lathes, shears, and other machine tools are subject to controls specified under Export Control Commodity No. 71510; annealing furnaces are subject to controls specified under Export Control Commodity Nos. 71914 (non-electric furnaces) or 72992 (electric furnaces); and other equipment for the further processing of the metal product after it has come from the rolling mill, such as tinplate lines, galvanizing lines, and electroplating lines are subject to controls under Export Control Commodity No. 71980.

Since the examples given in the above paragraphs are not all-inclusive, the exporter should, in addition to following the guide lines set forth above, carefully check both the Schedule B and the Commodity Control List before entering an Export Control Commodity number on an export license application or on a Shipper's Export Declaration for a particular item he plans to export for use in or with a rolling mill.

INTERPRETATION 17: [RESERVED]

INTERPRETATION 18: TRANSISTORS (EXPORT CONTROL COMMODITY NO. 72930)

The transistors listed below are *excepted* from validated license requirements for shipments to Country Groups T and V. In addition, all variations of these types denoted by a letter following the type number (e.g., GT760R or V10/15A) are also *excepted* from validated license requirements for shipments to Country Groups T and V.

CK 4	OO 44	2N 47
CK 13	OC 45	2N 48
CK 14	OC 65	2N 49
CK 16	OC 66	2N 50
CK 17	OC 70	2N 51
CK 22	OC 73	2N 52
CK 25	SB 100	2N 53
CK 26	SYL 1750	2N 54
CK 27	T 1164	2N 55
CK 28	T 2233	2N 56
CK 64	T 2234	2N 59
CK 65	TS 1	2N 60
CK 66	TS 2	2N 61
CK 67	TS 3	2N 62
CK 782	TS 637	2N 63
CK 870	V6/R2	2N 64
CK 891	V6/R4	2N 65
CK 892	V6/R8	2N 66
CTP 1104	V10/15	2N 67
CTP 1108	V10/30	2N 68
CTP 1109	V10/50	2N 71
CTP 1117	V15/10	2N 72
GA 52829	V15/20	2N 73
GA 53270	V15/30	2N 74
GFT 20	V30/10	2N 75
GFT 21	V30/20	2N 76
GFT 26	V30/30	2N 77
GFT 32	XA 101	2N 78
GFT 44	XA 102	2N 79
GFT 45	XB 102	2N 80
GT 35	XB 103	2N 81
GT 42	2N 22	2N 82
GT 43	2N 23	2N 94
GT 123	2N 24	2N 95
GT 153	2N 25	2N 97
GT 167	2N 26	2N 98
GT 229	2N 27	2N 99
GT 269	2N 28	2N 100
GT 758	2N 29	2N 101
GT 759	2N 30	2N 101/13
GT 760	2N 31	2N 102
GT 761	2N 32	2N 102/13
GT 762	2N 33	2N 103
GT 763	2N 34	2N 104
GT 792	2N 35	2N 105
GT 903	2N 36	2N 106
GT 904	2N 37	2N 107
GT 905	2N 38	2N 108
GT 947	2N 41	2N 109
GT 948	2N 43	2N 110
MN 48	2N 44	2N 111
OC 16	2N 45	2N 112
OC 30	2N 46	2N 113

2N 114	2N 256	2N 412
2N 115	2N 257	2N 422
2N 124	2N 260	2N 425
2N 125	2N 261	2N 438
2N 126	2N 262	2N 439
2N 127	2N 265	2N 444
2N 128	2N 267	2N 445
2N 129	2N 269	2N 446
2N 130	2N 270	2N 447
2N 131	2N 271	2N 448
2N 132	2N 272	2N 449
2N 133	2N 273	2N 460
2N 135	2N 274	2N 461
2N 136	2N 279	2N 462
2N 137	2N 280	2N 463
2N 138	2N 281	2N 464
2N 139	2N 283	2N 465
2N 140	2N 284	2N 466
2N 141	2N 291	2N 467
2N 142	2N 292	2N 469
2N 143	2N 293	2N 481
2N 144	2N 299	2N 482
2N 144/13	2N 300	2N 483
2N 145	2N 301	2N 484
2N 146	2N 302	2N 485
2N 147	2N 303	2N 486
2N 148	2N 306	2N 504
2N 149	2N 307	2N 505
2N 150	2N 308	2N 506
2N 155	2N 309	2N 507
2N 156	2N 310	2N 508
2N 157	2N 311	2N 515
2N 158	2N 312	2N 516
2N 164	2N 313	2N 517
2N 165	2N 314	2N 518
2N 166	2N 319	2N 519
2N 167	2N 320	2N 520
2N 168	2N 321	2N 521
2N 169	2N 322	2N 522
2N 170	2N 323	2N 523
2N 172	2N 324	2N 524
2N 175	2N 325	2N 525
2N 180	2N 326	2N 526
2N 181	2N 331	2N 527
2N 182	2N 344	2N 528
2N 183	2N 345	2N 529
2N 184	2N 346	2N 530
2N 185	2N 350	2N 531
2N 186	2N 351	2N 532
2N 187	2N 356	2N 533
2N 188	2N 358	2N 534
2N 189	2N 359	2N 535
2N 190	2N 360	2N 536
2N 191	2N 361	2N 544
2N 192	2N 362	2N 544/33
2N 193	2N 363	2N 556
2N 194	2N 364	2N 557
2N 206	2N 365	2N 563
2N 207	2N 366	2N 564
2N 211	2N 367	2N 565
2N 212	2N 368	2N 566
2N 213	2N 369	2N 567
2N 214	2N 370	2N 568
2N 215	2N 370/33	2N 569
2N 216	2N 371	2N 570
2N 217	2N 371/33	2N 571
2N 218	2N 372	2N 572
2N 219	2N 372/33	2N 578
2N 220	2N 373	2N 586
2N 223	2N 374	2N 587
2N 224	2N 376	2N 588
2N 225	2N 378	2N 591
2N 226	2N 381	2N 591/5
2N 227	2N 382	2N 592
2N 228	2N 383	2N 593
2N 229	2N 384	2N 594
2N 231	2N 384/33	2N 595
2N 232	2N 385	2N 596
2N 233	2N 386	2N 597
2N 234	2N 387	2N 598
2N 235	2N 394	2N 599
2N 237	2N 395	2N 600
2N 238	2N 398	2N 601
2N 240	2N 402	2N 605
2N 241	2N 403	2N 606
2N 247	2N 405	2N 609
2N 248	2N 406	2N 610
2N 249	2N 407	2N 611
2N 252	2N 408	2N 612
2N 253	2N 409	2N 613
2N 254	2N 410	2N 617
2N 255	2N 411	2N 624

RULES AND REGULATIONS

2N 625	2N 1188	2N 1415
2N 631	2N 1191	2N 1416
2N 632	2N 1192	2N 1425
2N 633	2N 1193	2N 1426
2N 640	2N 1194	2N 1431
2N 641	2N 1198	2N 1446
2N 642	2N 1202	2N 1447
2N 647	2N 1203	2N 1448
2N 649	2N 1213	2N 1449
2N 649/5	2N 1214	2N 1450
2N 650	2N 1215	2N 1451
2N 651	2N 1216	2N 1452
2N 652	2N 1217	2N 1453
2N 653	2N 1224	2N 1471
2N 654	2N 1225	2N 1473
2N 655	2N 1226	2N 1478
2N 670	2N 1251	2N 1510
2N 671	2N 1264	2N 1524
2N 672	2N 1265	2N 1525
2N 673	2N 1265/5	2N 1526
2N 674	2N 1266	2N 1527
2N 679	2N 1273	2N 1605
2N 680	2N 1274	2N 1614
2N 818	2N 1280	2N 1622
2N 1008	2N 1281	2N 1631
2N 1009	2N 1282	2N 1632
2N 1010	2N 1283	2N 1633
2N 1012	2N 1284	2N 1634
2N 1017	2N 1287	2N 1635
2N 1018	2N 1288	2N 1636
2N 1038	2N 1289	2N 1637
2N 1039	2N 1299	2N 1638
2N 1040	2N 1302	2N 1639
2N 1041	2N 1303	2N 1670
2N 1042	2N 1310	2N 1672
2N 1043	2N 1311	2N 1673
2N 1044	2N 1312	2N 1678
2N 1045	2N 1313	2N 1681
2N 1056	2N 1319	2N 1705
2N 1057	2N 1343	2N 1706
2N 1058	2N 1347	2N 1707
2N 1059	2N 1348	2N 1745
2N 1086	2N 1349	2N 1779
2N 1087	2N 1350	2N 1780
2N 1097	2N 1351	2N 1781
2N 1098	2N 1352	2N 1782
2N 1101	2N 1353	2N 1783
2N 1102	2N 1354	2N 1784
2N 1107	2N 1366	2N 1785
2N 1108	2N 1367	2N 1786
2N 1109	2N 1370	2N 1787
2N 1110	2N 1371	2N 1788
2N 1111	2N 1372	2N 1789
2N 1114	2N 1373	2N 1790
2N 1121	2N 1374	2N 1808
2N 1123	2N 1375	2N 1924
2N 1124	2N 1376	2N 1925
2N 1125	2N 1377	2N 1926
2N 1126	2N 1378	2N 1954
2N 1127	2N 1379	2N 1955
2N 1128	2N 1380	2N 1956
2N 1129	2N 1381	2N 1957
2N 1130	2N 1382	2N 1993
2N 1144	2N 1383	2N 2042
2N 1145	2N 1391	2N 2043
2N 1171	2N 1395	2N 2085
2N 1175	2N 1396	2N 2354
2N 1176	2N 1404	2N 2428
2N 1183	2N 1408	2N 2429
2N 1184	2N 1413	2N 2430
2N 1186	2N 1413	2N 2430
2N 1187	2N 1414	2N 2431

INTERPRETATION 19: MILITARY AUTOMOTIVE VEHICLES

(a) *Military automotive vehicles.* For purposes of United States export controls, military automotive vehicles, "possessing or built to current military specifications differing materially from normal commercial specifications" fall into two categories:

(1) *Military automotive vehicles on the munitions list, new and used.* Automotive vehicles in this category are primarily combat (fighting) vehicles with or without armor and/or armament, "designed for specific fighting function." These automotive vehicles are licensed by the U.S. Department of State. See list with descriptions, Category VII, § 370.5(a) of the Comprehensive Export Schedule.

(2) *Military automotive vehicles not on the munitions list, new and used.* Automotive vehicles in this category are primarily transport vehicles designed for non-combat military purposes (transporting cargo, personnel and/or equipment and for towing other vehicles and equipment over land and roads in close support of fighting vehicles and troops). These automotive vehicles are licensed by the Department of Commerce. United States military transport automotive vehicles currently in use are built on one of six basic truck chassis groups, classified as follows:

- (i) Truck, Utility, ¼-ton, 4 x 4, M38 Series,
- (ii) Truck, Cargo, ¾-ton, 4 x 4, M37 Series,
- (iii) Chassis, Truck, 2½-ton, 6 x 6, M44 Series,
- (iv) Chassis, Truck, 2½-ton, 6 x 6, M133 Series,
- (v) Chassis, Truck, 5-ton, 6 x 6, M39 Series,
- (vi) Chassis, Truck, 10-ton, 6 x 6, M121 Series.

United States military transport automotive vehicles in each of the above chassis groups may have a variety of chassis lengths and body types or styles.

(b) *Parts for military automotive vehicles.*

Functional parts specifically fabricated for the six basic truck chassis groups of military automotive vehicles described in paragraph (a) (2) above are defined as those parts making up the power train of the vehicles, including the electrical system, the cooling system, the fuel system, and the control system (brake and steering mechanism), the front and rear axle assemblies including the wheels, the chassis frame, springs and shock absorbers.

Parts specifically designed for military automotive vehicles on the Munitions List are licensed for export by the U.S. Department of State.

(c) *General instructions.* Manufacturers of non-Munitions List automotive vehicles and/or parts will know whether their products meet the conditions described above. Merchant exporters and other parties who are not sure whether their products (automotive vehicles and/or parts) meet these conditions should check with their suppliers for the required information before making a shipment under general license or submitting an application to the Office of Export Control for an export license.

INTERPRETATION 20: AIRCRAFT, PARTS, ACCESSORIES AND COMPONENTS

(a) *Aircraft, and parts, accessories, and components thereof.*¹ Aircraft, parts, accessories, and components defined in Categories VIII and IX of the Munitions List are under the export licensing authority of the U.S. Department of State. All other aircraft, and parts, accessories and components thereof are under the export licensing authority of the U.S. Department of Commerce.

Aircraft, parts, accessories and components are under the licensing authority of the U.S. Department of Commerce if one or more of the following criteria are met:

(1) Any aircraft (except an aircraft that has been demilitarized or a military trainer) which conforms to a Federal Aviation Agency type certificate in the normal, utility, acrobatic, transport, or restricted category, provided such aircraft has not been equipped with or modified to include military equipment, such as gun mounts, turrets, rocket launchers, or similar equipment designed for military combat or military training purposes.

(2) Models C-46, C-47, and C-54 cargo and passenger transports, provided such aircraft have not been equipped with or modified to include military equipment, such as gun

mounts, turrets, rocket launchers, or similar equipment designed for military combat or military training purposes.

(3) All reciprocating engines.
(4) Any aircraft engine which conforms to a Federal Aviation Agency type certificate.

(5) All aircraft propellers.
(6) Parts, accessories, and components designed exclusively for aircraft and engines described in (1), (2), (3), (4), and (5) above.

(7) General purpose parts, accessories, and components usable interchangeably on either military or civil aircraft.

(b) *Normal civil use for two years or less.* The term "normal civil use for two years or less," as specified on the Commodity Control List, is computed from the date the type or model of the aircraft was placed in commercial operation.

INTERPRETATION 21: [RESERVED]

INTERPRETATION 22: FLUOROCARBON POLYMERS AND COPOLYMERS

Fluorocarbon polymers and copolymers as specified on the Commodity Control List include, but are not limited to, Teflon®, Kel-F®, Tedlar®, Kynar®, Exon®, Aclar®, Viton®, and Fluorel®.

INTERPRETATION 23: DENDRITIC SEMICONDUCTOR MATERIAL

The term "dendritic semiconductor material," as used under Export Control Commodity No. 68950, means any semiconductor material which is produced by the dendritic process.

The dendritic process consists of growing a crystal from a molten mass of germanium, silicon, or other suitable metal and controlling the growth of the crystal in such a manner that it emerges in final form as a continuous ribbon of metal. It may be grown in various widths, thicknesses and lengths, and is readily usable in the manufacture of various semiconductor devices with a minimum amount of further processing.

§ 399.3 [Reserved]

§ 399.4 Licensing division jurisdiction over processing codes.

For purposes of submission of multiple transactions consignee/purchaser statements (§ 373.65 of this chapter) by applicants for export licenses, the Commodity Processing Code symbols, as shown on the Commodity Control List (§ 399.1 of this chapter) have been arranged in three groups, corresponding to the licensing jurisdiction of each of the licensing divisions in the Office of Export Control.

CAPITAL GOODS DIVISION		
CONS	TOOL	TRAN
GIEQ		
PRODUCTION MATERIALS AND CONSUMER PRODUCTS DIVISION		
AGRI	GFTS	RUBR
AGSU	MINL	SALT
COAL	NONF	STEE
COTA	ORGN	TEXT
DRUG	PETR	TNPL
FINP	RESN	
SCIENTIFIC AND ELECTRONIC EQUIPMENT DIVISION		
ELME	RARA	SATE

[F.R. Doc. 65-1082; Filed, Feb. 5, 1965; 8:45 a.m.]

¹ This Interpretation does not refer to electronic communication and navigational commodities usable on aircraft.

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