What is the density of a neutron star

As we know material of a neutron star is one of the heaviest material(s) found in universe {COSMOS}. so what is the density of that material?

- 1 ml of neutron star is approximately 500,000,000 kg on earth

Commonly neutron star have diameter of 10 to 20 km they are quite small but very heavy

So density = p=m/v

Density(p) = (unit)kg/m3

Mass (m)   = 500000000   kg

Volume (v) = 1   m

That is 500,000,000,000,000

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My theory

we can make the strongest material with neutron star according to science denser materials are stronger currently diamond, graphane, osmium are the densest and strongest materials found

we just need 2.0E-7 ie. 0.00000002 ml of neutron star material for a 100 kg on earth