PHYSICAL PROPERTIES OF Pu METAL AND ALLOYS[1]

Plutonium Metal

Density 19.6 g/cm³ - solid 19.81 g/cm³ theoretical[2]

16.62 g/cm - liquid metal 664°C liquid Pu g/cm³ = (17.66-1.52 x 10^{-3} °C)

Melting Point 640°C

Pu-Al Alloys

See II.A.3-2

Pu-U-Mo Alloys

Alloy Composition atom %	Density as Cast g/cm³
20 Pu - 72U - 8 Mo	17.64
20 Pu - 70U - 10 Mo	17.26
20 Pu - 68U - 12 Mo	17.12
15 Pu - 70U - 15 Mo	17.54
20 Pu - 60U - 20 Mo	17.11

(1) Plutonium Handbook, Vol. 1, O. J. Wick, 1967.

(2) Under special conditions 19.8 g/cm³ can be obtained.