

Product profile

PHYSICAL DATA

Colour	: Silvery Metallic
Atomic Number	: 22
Atomic Weight	: 47.867
Melting Point	: 1668°C
Bulk Density	: 1.3 gm/cc
Electric Resistivity	: 55 μΩ-cm
Thermal Conductivity	: 17 W/mK
Coefficient of Thermal Expansion	: 8.4 x10 ⁻⁶ /°C

CHARACTERISTICS

Element	Typical analysis (%)		
	CP Grade 1 (Aerospace)	CP Grade 2	CP Grade 3
Iron (Fe)	< 0.050	< 0.100	< 0.300
Carbon (C)	< 0.015	< 0.015	< 0.050
Oxygen (O)	< 0.050	< 0.080	< 0.300
Nitrogen (N)	< 0.010	< 0.010	< 0.020
Magnesium (Mg)	< 0.040	< 0.050	< 0.100
Chloride	< 0.040	< 0.050	< 0.100
Nickel (Ni)	< 0.010	< 0.010	< 0.010
Chromium (Cr)	< 0.015	< 0.015	< 0.020
Hydrogen (H)	< 0.005	< 0.005	< 0.005
Other Elements(Total) (Individual <0.010%)	<0.050	<0.050	<0.050
Titanium (Ti) (Approx by difference)	> 99.70	> 99.60	> 99.00
Other Details			
Size Range	2 to 25mm	2 to 25mm	2 to 25mm
Hardness(BHN)	85 –110	110 – 150	>150



TITANIUM SPONGE

GENERAL DESCRIPTION

The virgin Titanium metal is commonly designated as Titanium Sponge because it is most commonly porous and sponge like in texture. Ti Sponge is made by "Kroll Process" i.e. reduction of Titanium Tetrachloride by Magnesium and finished by Vacuum Distillation.

APPLICATIONS

Basic raw material for the manufacture of Titanium Metal of different grades and its beneficial alloys

PACKAGING

220-250Kg Ti Sponge is packed in antistatic bags, kept in an air tight, moisture proof sealed metal drums under Argon atmosphere.



Titanium Sponge Unit
(Jointly promoted by KMMML, DRDO&ISRO)

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