

Zinc Foam

Formula: Zn

Percentage Purity: 99.99%

Pores/cm: 4

Thickness: 20mm

Length 1: 150mm

Length 2: 150mm

Bulk Density: 0.28g/cm³

Maximum Use Temperature: 50°C

Type: 99.99% Zinc Deposited On A Polyurethane Foam

CAS Number: 7440-66-6

UOM Code: 565-641-72

SKU: 1000197235-group

Product Code: ZN00-FA-000113

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	30
Crystal structure	Hexagonal close packed
Electronic structure	Ar 3d ¹⁰ 4s ²
Valences shown	2
Atomic weight(amu)	65.38
Thermal neutron absorption cross-section(Barns)	1.1
Photo-electric work function(eV)	4.3
Natural isotope distribution(Mass No./%)	64/ 48.6
Natural isotope distribution(Mass No./%)	67/ 4.1
Natural isotope distribution(Mass No./%)	68/ 18.8
Natural isotope distribution(Mass No./%)	70/ 0.6
Natural isotope distribution(Mass No./%)	66/ 27.9
Atomic radius - Goldschmidt(nm)	0.137
Ionisation potential(No./eV)	6/ 108
Ionisation potential(No./eV)	1/ 9.39
Ionisation potential(No./eV)	4/ 59.4
Ionisation potential(No./eV)	3/ 39.7

Element	Value
Ionisation potential(No./eV)	2/ 17.96
Ionisation potential(No./eV)	5/ 82.6

Mechanical Properties

Element	Value
Hardness - Mohs	2.5
Material condition	Polycrystalline
Poisson's ratio	0.249
Bulk modulus(GPa)	69.4
Tensile modulus(GPa)	104.5

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	5.96@20@20°C
Superconductivity critical temperature(K)	0.85
Temperature coefficient(K^{-1})	0.0042@0-100°C
Thermal emf against Pt (cold 0C - hot 100C)(mV)	0.76

Physical Properties

Element	Value
Boiling point(C)	907
Density(gcm^{-3})	7.14@20°C

Thermal Properties

Element	Value
Melting point(C)	419.5
Latent heat of evaporation(J g^{-1})	1748
Latent heat of fusion(J g^{-1})	111
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	388@25°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	116@0-100°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	31@0-100°C