Cadmium Foil/Sheet - T 0.125mm 50mm x 50mm

Formula: Cd
Percentage Purity: 99.95%
Temper: As Rolled
Thickness: 0.125mm
Length 1: 50mm
Length 2: 50mm
CAS Number: 7440-43-9
UOM Code: 837-689-86
Legacy Code: CD000232
Distributor Code: GF83768986
SKU: 1000038338
Product Code: CD00-FL-000132

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	48
Crystal structure	Hexagonal close packed
Electronic structure	Kr 4d¹? 5s²
Valences shown	2
Atomic weight(amu)	112.41
Thermal neutron absorption cross-section(Barns)	2450
Photo-electric work function(eV)	4
Natural isotope distribution(Mass No./%)	106/ 1.2
Natural isotope distribution(Mass No./%)	108/ 0.9
Natural isotope distribution(Mass No./%)	11112.8
Natural isotope distribution(Mass No./%)	112/ 24.0
Natural isotope distribution(Mass No./%)	113/ 12.3
Natural isotope distribution(Mass No./%)	116/ 7.6
Natural isotope distribution(Mass No./%)	110/ 12.4
Natural isotope distribution(Mass No./%)	114/ 28.8
Atomic radius - Goldschmidt(nm)	0.152
Ionisation potential(No./eV)	2/ 16.9
Ionisation potential(No./eV)	3/ 37.5

Element	Value
Ionisation potential(No./eV)	1/ 8.99

Mechanical Properties

Element	Value
Hardness - Mohs	-
Hardness - Mohs	2
Material condition	Polycrystalline
Material condition	Cast
Poisson's ratio	0.3
Poisson's ratio	0.3
Bulk modulus(GPa)	51
Bulk modulus(GPa)	51
Tensile modulus(GPa)	62.6
Tensile modulus(GPa)	62.6
Tensile strength(MPa)	-
Tensile strength(MPa)	71

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	7.3@20°C
Superconductivity critical temperature(K)	0.517
Temperature coefficient(K?¹)	0.0043@0-100°C
Thermal emf against Pt (cold 0C - hot 100C)(mV)	0.91

Physical Properties

Element	Value
Boiling point(C)	765
Density(gcm?³)	8.64@20°C

Thermal Properties

Element	Value
Melting point(C)	321
Latent heat of evaporation(J g?¹)	886
Latent heat of fusion(J g?¹)	57
Specific heat(J K?¹ kg?¹)	232@25°C
Thermal conductivity(W m?¹ K?¹)	96.9@0-100°C
Coefficient of thermal expansion(x10?? K?¹)	31@0-100°C