Holmium Foil/Sheet

Holmium foil offers strong magnetic moment and optical absorption for spectroscopy, lasers, and functional oxide development. **SKU:** 1000090954-group
Product Code: HO00-FL-000105

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	67
Crystal structure	Hexagonal close packed
Electronic structure	Xe $4f^{11}$ $6s^{2}$
Valences shown	3
Atomic weight(amu)	164.9304
Thermal neutron absorption cross-section(Barns)	65
Atomic radius - Goldschmidt(nm)	0.176
Ionisation potential(No./eV)	2/ 11.80
Ionisation potential(No./eV)	1/ 6.02

Mechanical Properties

Element	Value
Material condition	Polycrystalline
Poisson's ratio	0.225
Bulk modulus(GPa)	40.5
Tensile modulus(GPa)	66.9
Hardness - Vickers(kgf mm?^{2})	60
Tensile strength(MPa)	262
Yield strength(MPa)	221

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	94@20°C
Temperature coefficient(K?^{1})	0.00171@0-100°C

Physical Properties

Element	Value
Boiling point(C)	2695
Density(gcm?³)	8.803@20°C

Thermal Properties

Element	Value
Melting point(C)	1474
Latent heat of evaporation(J g?¹)	1695
Latent heat of fusion(J g?¹)	104
Specific heat(J K?¹ kg?¹)	165@25°C
Thermal conductivity(W m?¹ K?¹)	16.2@0-100°C
Coefficient of thermal expansion(x10?? K?¹)	9.5@0-400°C