

Terbium Foil

Formula: Tb

Percentage Purity: 93%

Temper: As Rolled

Thickness: 0.6mm

Length 1: 100mm

Length 2: 100mm

UOM Code: 128-674-20

SKU: 1000223121-group

Product Code: TB00-FL-000167

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	65
Crystal structure	Hexagonal close packed
Electronic structure	Xe 4f ⁷ 6s ²
Valences shown	3,4
Atomic weight(amu)	158.9254
Thermal neutron absorption cross-section(Barns)	30
Photo-electric work function(eV)	3
Atomic radius - Goldschmidt(nm)	0.177
Ionisation potential(No./eV)	2/ 11.52
Ionisation potential(No./eV)	1/ 5.85

Mechanical Properties

Element	Value
Material condition	Polycrystalline
Poisson's ratio	0.265
Bulk modulus(GPa)	40.8
Tensile modulus(GPa)	57.5
Hardness - Vickers(kgf mm ²)	60

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	116@20@20°C

Physical Properties

Element	Value
Boiling point(C)	3123
Density(gcm^3)	8.272@20°C

Thermal Properties

Element	Value
Melting point(C)	1356
Latent heat of evaporation(J g^{-1})	1840
Latent heat of fusion(J g^{-1})	103
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	183@25°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	11.1@0-100°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	7@0-100°C