

Titanium Diboride Sputtering Target

Formula: TiB₂

Thickness: 6mm

Diameter: 50mm

CAS Number: 12045-63-5

UOM Code: 583-955-49

SKU: 1000198586-group

Product Code: TI61-ST-000100

Material Properties for Compounds

Chemical Resistance

Element	Value
Acids - concentrated	Fair
Acids - dilute	Good
Alkalis	Fair
Halogens	Good
Metals	Good

Mechanical Properties

Element	Value
Poisson's ratio	0.18-0.2
Tensile modulus(GPa)	520-570
Hardness - Vickers(kgf mm ⁻²)	3000
Shear strength(MPa)	300-600

Thermal Properties

Element	Value
Melting point(C)	3000
Upper continuous use temperature(C)	1000-2000
Thermal conductivity(W m ⁻¹ K ⁻¹)	50-70@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	6-7@20-1000°C

Physical Properties

Element	Value
Density(gcm ³)	4.5

Electrical Properties

Element	Value
Volume resistivity(Ohmcm)	15x10 ^{??} @25