

TZM Molybdenum Alloy Rod

Formula: Mo99/Ti 0.5/Zr 0.1

Diameter: 5mm

Length: 500mm

UOM Code: 079-237-19

SKU: 1000011347-group

Product Code: MO01-RD-000110

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	20
Modulus of elasticity(GPa)	320
Tensile strength(MPa)	560-1150

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	5.3-5.5

Thermal Properties

Element	Value
Maximum use temperature in air(C)	400
Melting point(C)	2500-2600
Specific heat(J K ⁻¹ kg ⁻¹)	305@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	126@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	5.3@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	10.22