

Manganin® Disk

Formula: Cu₈₆/Mn₁₂/Ni₂

Temper: Hard

Thickness: 0.5mm

Diameter: 25mm

UOM Code: 001-074-91

SKU: 1000000141-group

Product Code: CU06-FL-000102

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	50
Modulus of elasticity(GPa)	124-159
Izod impact strength(J m ⁻¹)	107
Tensile strength(MPa)	300-600

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	43-48
Temperature coefficient(K ⁻¹)	0.00001

Thermal Properties

Element	Value
Maximum use temperature in air(C)	300
Melting point(C)	960
Thermal conductivity(W m ⁻¹ K ⁻¹)	22@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	14-19@20-100°C

Physical Properties

Element	Value
Density(gcm ⁻³)	8.4