

Manganin® Spooled Wire

Formula: Cu86/Mn12/Ni 2

Product Shape: Spooled

Diameter: 1.2mm

Length: 50m

Temper: Annealed

UOM Code: 008-696-21

SKU: 1000001211-group

Product Code: CU06-WR-000165

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	50
Modulus of elasticity(GPa)	124-159
Izod impact strength(J m ²)	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
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Density(gcm³) 8.4