

Manganin® Coil

Formula: Cu86/Mn12/Ni 2

Temper: Annealed

Thickness: 0.635mm

Coil Width: 100mm

Length: 0.5m

UOM Code: 014-136-38

SKU: 1000001810-group

Product Code: CU06-FL-000210

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	50
Modulus of elasticity(GPa)	124-159
Izod impact strength(J m ²¹)	107
Tensile strength(MPa)	300-600

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	43-48
Temperature coefficient(K ²¹)	0.00001

Thermal Properties

Element	Value
Maximum use temperature in air(C)	300
Melting point(C)	960
Thermal conductivity(W m ²¹ K ²¹)	22@23°C
Coefficient of thermal expansion(x10 ²² K ²¹)	14-19@20-100°C

Physical Properties

Element	Value
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Density(gcm³) 8.4