

Monel® 400 Straight Wire

Formula: Ni65/Cu33/Fe 2

Product Shape: Straight Wire

Diameter: 1mm

Length: 1m

Temper: Annealed

UOM Code: 139-963-45

SKU: 1000043128-group

Product Code: NI11-WR-000125

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	125-190
Elongation at break(%)	40
Modulus of elasticity(GPa)	185
Izod impact strength(J m ²)	110-140
Tensile strength(MPa)	550-950

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	48-51
Temperature coefficient(K ⁻¹)	0.0019

Thermal Properties

Element	Value
Maximum use temperature in air(C)	450
Melting point(C)	1300-1350
Thermal conductivity(W m ⁻¹ K ⁻¹)	21.7@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	13.9-14.1@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	8.84