

T2 Thermocouple Alloy Rod (Ni95/(Al+Mn+Si) 5)

Formula: Ni95/(Al+Mn+Si) 5

Diameter: 9mm

Length: 100mm

Temper: As Drawn

UOM Code: 002-475-75

SKU: 1000000359-group

Product Code: NI10-RD-000125

Material Properties for Alloys

Magnetic Properties

Element	Value
Maximum permeability	1.07

Mechanical Properties

Element	Value
Elongation at break(%)	44
Modulus of elasticity(GPa)	220
Izod impact strength(J m ²)	108
Tensile strength(MPa)	550-780

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	29-33
Temperature coefficient(K ⁻¹)	0.0019

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1100
Melting point(C)	1315-1390
Specific heat(J K ⁻¹ kg ⁻¹)	446@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	30-32@23°C

Element	Value
Coefficient of thermal expansion($\times 10^{-6} \text{ K}^{-1}$)	16.8@20-1000°C

Physical Properties

Element	Value
Density(gcm^{-3})	8.5-8.7