

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

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

Product Shape: Spooled

Diameter: 0.5mm

Length: 250m

Thermocouple Wire: May Be Used As One Component Of A Thermocouple

Temper: Annealed

UOM Code: 006-202-66

SKU: 1000000825-group

Product Code: NI10-WR-000150

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

Element	Value
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
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	16.8@20-1000°C

Physical Properties

Element	Value
Density(gcm ⁻³)	8.5-8.7