

Polyimide T2 Thermocouple Insulated Wire (Ni95/(Al+Mn+Si) 5)

Formula: Ni95/(Al+Mn+Si) 5
Conductor Diameter: 0.05mm
Insulation: Polyimide
Insulation Thickness: 0.003mm
Length: 20m
Product Shape: Thermocouple (May Be Used As One Component)
UOM Code: 050-837-58
SKU: 1000007240-group
Product Code: NI10-SW-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

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