

T1 Thermocouple Alloy Spooled Wire (Ni90/Cr10)

Formula: Ni90/Cr10

Product Shape: Spooled

Diameter: 0.5mm

Length: 5m

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

Temper: Annealed

UOM Code: 033-289-72

SKU: 1000004304-group

Product Code: NI09-WR-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	44
Modulus of elasticity(GPa)	186
Izod impact strength(J m ²)	108
Tensile strength(MPa)	620-780

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70.6
Temperature coefficient(K ⁻¹)	0.00032

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1100
Melting point(C)	1420
Thermal conductivity(W m ⁻¹ K ⁻¹)	19@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	17.2@20-1000°C

Physical Properties

Element	Value
Density(gcm ³)	8.5