

T1 Thermocouple Alloy Coil (Ni90/Cr10)

Formula: Ni90/Cr10

Temper: Annealed

Thickness: 0.6mm

Coil Width: 38mm

Length: 0.5m

UOM Code: 047-315-22

SKU: 1000006713-group

Product Code: NI09-FL-000100

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($\times 10^{-6}$ K ⁻¹)	17.2@20-1000°C

Physical Properties

Element	Value
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Density(gcm³) 8.5