

T1 Thermocouple Alloy Foil (Light Tight) (Ni90/Cr10)

Formula: Ni90/Cr10

Temper: As Rolled

Thickness: 0.3mm

Length 1: 60mm

Length 2: 200mm

UOM Code: 165-926-76

SKU: 1000060107-group

Product Code: NI09-FL-000184

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