T1 Thermocouple Foil (Light Tight) (Ni90-Cr10)

T1 thermocouple alloy foil (light tight) (Ni90/Cr10) providing thermal stability, oxidation resistance, and pinhole?free light blocking for photonic thermal setups and optical furnaces. **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?¹)	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?? K?¹)	17.2@20-1000°C

Physical Properties

Element	Value
Density(gcm?³)	8.5