Inconel® X750 Spooled Wire

Inconel X750 spooled wire is a precipitation-hardened nickel–chromium alloy with titanium and aluminum, offering high strength, oxidation resistance, and stability at elevated and cryogenic temperatures. Supplied as continuous wire for welding, additive manufacturing, springs, and fasteners. **SKU:** 1000016316-group
Product Code: NI16-WR-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	150-280
Elongation at break(%)	20
Modulus of elasticity(GPa)	210
Shear strength(MPa)	118-152
Tensile strength(MPa)	700-1250

Magnetic Properties

Element	Value
Initial permeability	1.002
Curie temperature(C)	-193

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	122-124

Thermal Properties

Element	Value
Melting point(C)	1390-1425
Specific heat(J K?¹ kg?¹)	431@23°C
Thermal conductivity(W m?¹ K?¹)	12@23°C
Coefficient of thermal expansion(x10?? K?¹)	12.6@20-100°C

Physical Properties

Element	Value
Density(gcm?³)	8.25