

Inconel® X750 Spooled Wire

Formula: Ni74/Cr15/Fe 7/Ti/Al/Nb

Product Shape: Spooled

Diameter: 0.25mm

Length: 20m

Temper: Annealed

UOM Code: 102-871-32

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

Element	Value
Thermal conductivity($W m^{-1} K^{-1}$)	12@23°C
Coefficient of thermal expansion($\times 10^{-6} K^{-1}$)	12.6@20-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	8.25