

Inconel® 625 Spooled Wire

Formula: Ni61/Cr22/Mo 9/Fe 5

Product Shape: Spooled

Diameter: 0.5mm

Length: 10m

Temper: Annealed

UOM Code: 043-447-24

SKU: 1000006001-group

Product Code: NI04-WR-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	175-240
Elongation at break(%)	40
Modulus of elasticity(GPa)	147-210
Tensile strength(MPa)	950

Magnetic Properties

Element	Value
Initial permeability	1.0006
Curie temperature(C)	-196

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	129
Temperature coefficient(K^{-1})	-

Thermal Properties

Element	Value
Melting point(C)	1290-1350
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	410@23°C

Element	Value
Thermal conductivity($W m^{-1} K^{-1}$)	9.8@23°C
Coefficient of thermal expansion($\times 10^{-6} K^{-1}$)	12.8@20-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	8.44