

AISI 347 Stainless Steel Spooled Wire

Formula: Fe/Cr18/Ni10/Nb

Product Shape: Spooled

Diameter: 0.5mm

Length: 100m

Temper: Annealed

UOM Code: 003-352-36

SKU: 1000000434-group

Product Code: FE23-WR-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	160-190
Elongation at break(%)	60
Modulus of elasticity(GPa)	190-210
Izod impact strength(J m ²)	20-136
Tensile strength(MPa)	520-1100

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70-73

Thermal Properties

Element	Value
Maximum use temperature in air(C)	800
Melting point(C)	1400-1425
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@100°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	16-18@20-100°C

Physical Properties

Element	Value
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Density(gcm³) 7.93