

AISI 410 Stainless Steel Spooled Wire

Formula: Fe/Cr12.5

Product Shape: Spooled

Diameter: 1mm

Length: 50m

Temper: As Drawn

UOM Code: 144-769-23

SKU: 1000046880-group

Product Code: FE26-WR-000160

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	140-175
Elongation at break(%)	38
Modulus of elasticity(GPa)	190-210
Izod impact strength(J m ²)	10-136
Tensile strength(MPa)	480-1500

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	56-72

Thermal Properties

Element	Value
Maximum use temperature in air(C)	750
Melting point(C)	1480-1530
Thermal conductivity(W m ⁻¹ K ⁻¹)	18-24@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	10-12@20-100°C

Physical Properties

Element	Value
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Density(gcm³) 7.73