

AISI 316 Stainless Steel Straight Wire

Formula: Fe/Cr18/Ni10/Mo 3

Product Shape: Straight Wire

Diameter: 0.5mm

Length: 1m

Temper: Hard

UOM Code: 117-532-65

SKU: 1000029211-group

Product Code: FE24-WR-000120

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)	460-860

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70-78
Temperature coefficient(K ⁻¹)	-

Thermal Properties

Element	Value
Melting point(C)	1370-1400
Specific heat(J K ⁻¹ kg ⁻¹)	502@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	16-18@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.96