

AISI 304 Stainless Steel Straight Wire

Formula: Fe/Cr18/Ni10

Product Shape: Straight Wire

Diameter: 0.5mm

Length: 1m

Temper: As Drawn

UOM Code: 143-482-57

SKU: 1000045737-group

Product Code: FE22-WR-000230

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)	460-1100

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70-72

Thermal Properties

Element	Value
Melting point(C)	1400-1455
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	18@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.93