

AISI 316 Stainless Steel Rod

Formula: Fe/Cr18/Ni10/Mo 3

Diameter: 10mm

Length: 200mm

Temper: As Drawn

UOM Code: 022-001-94

SKU: 1000002662-group

Product Code: FE24-RD-000115

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 ²¹)	20-136
Tensile strength(MPa)	460-860

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70-78
Temperature coefficient(K ²¹)	-

Thermal Properties

Element	Value
Melting point(C)	1370-1400
Specific heat(J K ²¹ kg ²¹)	502@23°C
Thermal conductivity(W m ²¹ K ²¹)	16.3@23°C
Coefficient of thermal expansion(x10 ²¹ K ²¹)	16-18@20-100°C

Physical Properties

Element	Value
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Density(gcm³) 7.96