

AISI 321 Stainless Steel Rod

Formula: Fe/Cr18/Ni 9/Ti

Diameter: 25.4mm

Length: 500mm

UOM Code: 080-235-20

SKU: 1000011478-group

Product Code: FE21-RD-000140

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)	560

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70-73
Temperature coefficient(K ²¹)	-

Thermal Properties

Element	Value
Maximum use temperature in air(C)	800
Melting point(C)	1400-1425
Thermal conductivity(W m ²¹ K ²¹)	16.3@23°C
Coefficient of thermal expansion(x10 ²² K ²¹)	18@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.9