

AISI 410 Stainless Steel Rod

Formula: Fe/Cr12.5

Diameter: 9.5mm

Length: 1000mm

UOM Code: 771-640-72

SKU: 1000107288-group

Product Code: FE26-RD-000120

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
Density(gcm ³)	7.73