

Incoloy® 800 Rod

Formula: Ni32.5/Cr21/Fe

Diameter: 10mm

Length: 100mm

Temper: Annealed

UOM Code: 020-940-94

SKU: 1000002475-group

Product Code: NI12-RD-000130

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	180-250
Elongation at break(%)	45
Modulus of elasticity(GPa)	196
Izod impact strength(J m ²)	160
Tensile strength(MPa)	400-900

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	20
Temperature coefficient(K ⁻¹)	-

Thermal Properties

Element	Value
Melting point(C)	1350-1420
Specific heat(J K ⁻¹ kg ⁻¹)	460@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	11.5-12.9@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	14.2-15.8@20-100°C

Physical Properties

Element	Value
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Density(gcm³) 7.95