

Fecralloy® Rod

Formula: Fe72.8/Cr22/Al 5/Y 0.1/Zr 0.1

Diameter: 12mm

Length: 1000mm

UOM Code: 029-522-44

SKU: 1000003696-group

Product Code: FE08-RD-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	25
Hardness - Vickers(kgf mm ²)	230
Tensile strength(MPa)	560

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	134
Temperature coefficient(K ⁻¹)	0.0001

Magnetic Properties

Element	Value
Curie temperature(C)	600

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1100-1300
Melting point(C)	1380-1490
Thermal conductivity(W m ⁻¹ K ⁻¹)	16@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	11.1@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.22