

# 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 <sup>2</sup> )	230
Tensile strength( MPa )	560

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	134
Temperature coefficient( K <sup>-1</sup> )	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 <sup>-1</sup> K <sup>-1</sup> )	16@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	11.1@20-100°C

## Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	7.22