

Chromaloy® Alloy Spooled Wire

Formula: Fe75/Cr20/Al 5

Product Shape: Spooled

Diameter: 0.5mm

Length: 20m

Temper: Annealed

UOM Code: 037-113-83

SKU: 1000004943-group

Product Code: FA18-WR-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	15
Tensile strength(MPa)	650

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	137
Temperature coefficient(K^{-1})	0.00007

Magnetic Properties

Element	Value
Curie temperature(C)	600

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1250
Melting point(C)	1500
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	16@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	11@20-100°C

Physical Properties

Element	Value
---------	-------

Density(gcm ³)	7.1
-----------------------------	-----