

Nickel/Chromium Alloy Spooled Wire (Ni80/Cr20)

Formula: Ni80/Cr20

Product Shape: Spooled

Diameter: 0.25mm

Length: 500m

Temper: Hard

UOM Code: 004-732-84

SKU: 1000000607-group

Product Code: NI05-WR-000130

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	40
Tensile strength(MPa)	650-1100

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	108
Temperature coefficient(K^{-1})	0.00005

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1150-1250
Melting point(C)	1400
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	13.4@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	14@20-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	8.4