

Hastelloy® C276 Spooled Wire

Formula: Ni57/Mo17/Cr16/Fe/W/Mn

Product Shape: Spooled

Diameter: 0.1mm

Length: 30m

Temper: Hard

UOM Code: 135-986-69

SKU: 1000040516-group

Product Code: NI14-WR-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	80-200
Elongation at break(%)	52
Modulus of elasticity(GPa)	170-220
Izod impact strength(J m ²)	42-100
Tensile strength(MPa)	550-900

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	125-130

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1090
Melting point(C)	1270-1390
Specific heat(J K ⁻¹ kg ⁻¹)	427@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	10.1-12.5@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	10.8-11.3@20-100

Physical Properties

Element	Value
Density(gcm ³)	8.94