

Iron/Nickel Alloy Spooled Wire (Fe58/Ni42)

Formula: Fe58/Ni42

Product Shape: Spooled

Diameter: 0.5mm

Length: 50m

Temper: As Drawn

UOM Code: 210-810-13

SKU: 1000086532-group

Product Code: FE13-WR-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	30
Modulus of elasticity(GPa)	21.5
Tensile strength(MPa)	566

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	68
Temperature coefficient(K^{-1})	-

Magnetic Properties

Element	Value
Curie temperature(C)	380

Thermal Properties

Element	Value
Melting point(C)	1450
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	502@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	4.8@30-100°C

Physical Properties

Element	Value
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Density(gcm ³)	8.11
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