Iron-Nickel Spooled Wire (Fe58-Ni42)

Iron nickel alloy spooled wire (Fe58/Ni42) offers dimensional stability, mechanical integrity, and stable conductivity for precision coils, sensors, and high-vacuum wiring. **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(J K?¹ kg?¹)	502@23°C
Coefficient of thermal expansion(x10?? K?¹)	4.8@30-100°C

Physical Properties

Element	Value
Density(gcm?³)	8.11