

Iron/Nickel Alloy Precursor Powder (Fe58/Ni42)

Formula: Fe58/Ni42

Maximum Particle Size: 150 μ m

Weight: 1000g

Type: Alloy Pre-cursor

UOM Code: 241-409-23

SKU: 1000098654-group

Product Code: FE13-PD-000110

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(μ Ohmcm)	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 ⁻⁶ K ⁻¹)	4.8@30-100°C

Physical Properties

Element	Value
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Density(gcm ³)	8.11
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