

Iron/Nickel Alloy Powder (Fe50/Ni50)

Formula: Fe50/Ni50

Maximum Particle Size: 63 μ m

Weight: 100g

UOM Code: 133-145-18

SKU: 1000039198-group

Product Code: FE07-PD-000130

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	35
Modulus of elasticity(GPa)	159
Tensile strength(MPa)	552

Electrical Properties

Element	Value
Electrical resistivity(μ Ohmcm)	44
Temperature coefficient(K ⁻¹)	-

Magnetic Properties

Element	Value
Curie temperature(C)	530

Thermal Properties

Element	Value
Melting point(C)	1400-1450
Specific heat(J K ⁻¹ kg ⁻¹)	502@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	14@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	9.9@25-450°C

Physical Properties

Element	Value
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Density(gcm ³)	8.39
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