

Iron/Nickel Alloy Spherical Powder (Fe58/Ni42)

Formula: Fe58/Ni42

Maximum Particle Size: 45 μ m

Weight: 1000g

Product Shape: Spherical

Production Method: Gas Atomised

UOM Code: 048-468-00

SKU: 1000006853-group

Product Code: FE13-PD-000111

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
Density(gcm ³)	8.11