

Magnetic Shielding Alloy Spherical Powder (Ni77/Fe14/Cu 5/Mo 4)

Formula: Ni77/Fe14/Cu 5/Mo 4

Maximum Particle Size: 45 μ m

Weight: 1000g

Product Shape: Spherical

Production Method: Atomised

UOM Code: 143-737-65

SKU: 1000045981-group

Product Code: NI03-PD-000110

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	105-290
Modulus of elasticity(GPa)	190-221
Izod impact strength(J m ²)	42-100
Tensile strength(MPa)	530-900

Magnetic Properties

Element	Value
Initial permeability	60000
Maximum permeability	240000
Coercivity (Hc)(A m ²)	1
Curie temperature(C)	380
Remanence from saturation (Brem)(T)	0.37
Saturation Induction(T)	0.77

Electrical Properties

Element	Value
Electrical resistivity(μ Ohmcm)	55-62

Physical Properties

Element	Value
Density(gcm^3)	8.8

Thermal Properties

Element	Value
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	30-35@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	13@20-100°C