

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

Formula: Ni77/Fe14/Cu 5/Mo 4

Thickness: 0.025mm

Diameter: 6mm

UOM Code: 006-105-79

SKU: 1000000804-group

Product Code: NI03-FL-000140

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(μOhmcm)	55-62

Physical Properties

Element	Value
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Density(gcm ³)	8.8
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Thermal Properties

Element	Value
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Thermal conductivity(W m ⁻¹ K ⁻¹)	30-35@23°C
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Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	13@20-100°C
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