

Metallic Glass Nickel/Iron/Silicon/Boron Coil

Grade: Metallic Glass

Formula: Ni40/Fe40/Si+B 19/Mo 1-2 (Atomic %)

Thickness: 0.025mm

Coil Width: 25mm

Length: 100m

UOM Code: 131-868-85

SKU: 1000038493-group

Product Code: NI81-FL-000150

Material Properties for Glasses

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	135

Magnetic Properties

Element	Value
Coercivity - as cast(A m^{-1})	1
Remanence ratio(Br/Bs)	1
Curie temperature($^{\circ}\text{C}$)	260
Saturation flux density(T)	0.8
Saturation magnetostriction($\times 10^{-6}$)	8

Thermal Properties

Element	Value
Crystallisation temperature($^{\circ}\text{C}$)	450
Maximum use temperature in air($^{\circ}\text{C}$)	120

Physical Properties

Element	Value
Density(gcm^{-3})	7.4

Mechanical Properties

Element	Value
Tensile modulus(GPa)	150
Hardness - Vickers(kgf mm ²)	800
Tensile strength(MPa)	1500-2000