

Metallic Glass Cobalt/Silicon/Boron/Manganese Coil

Grade: Metallic Glass

Formula: Co70/Si+B 23/Mn 5/Fe+Mo 2 (Atomic %)

Thickness: 0.04mm

Coil Width: 25mm

Length: 0.5m

UOM Code: 019-091-99

SKU: 1000002290-group

Product Code: CO83-FL-000100

Material Properties for Glasses

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	130

Magnetic Properties

Element	Value
Coercivity - as cast(A m^{-1})	1
Remanence ratio(Br/Bs)	0.7-0.95
Curie temperature($^{\circ}\text{C}$)	350
Saturation flux density(T)	0.8
Saturation magnetostriction($\times 10^{-3}$)	0.3

Thermal Properties

Element	Value
Crystallisation temperature($^{\circ}\text{C}$)	450
Maximum use temperature in air($^{\circ}\text{C}$)	80-120

Physical Properties

Element	Value
Density(gcm^{-3})	7.6

Mechanical Properties

Element	Value
Tensile modulus(GPa)	150
Hardness - Vickers(kgf mm ²)	900
Tensile strength(MPa)	1500-2000