

# Metallic Glass Cobalt/Silicon/Boron/Iron/Nickel Coil

**Grade:** Metallic Glass

**Formula:** Co66/Si15/B 14/Fe 4/Ni 1 (Atomic %)

**Thickness:** 0.018mm

**Coil Width:** 50.8mm

**Length:** 2m

**UOM Code:** 088-866-62

**SKU:** 1000012680-group

**Product Code:** CO81-FL-000120

## Material Properties for Glasses

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	142

### Magnetic Properties

Element	Value
Coercivity - as cast( $\text{A m}^{-1}$ )	0.24
Remanence ratio( $\text{Br/Bs}$ )	0.82
Curie temperature( $^{\circ}\text{C}$ )	205
Saturation flux density( $\text{T}$ )	0.55
Saturation magnetostriction( $\times 10^{-6}$ )	1

### Thermal Properties

Element	Value
Crystallisation temperature( $^{\circ}\text{C}$ )	550
Maximum use temperature in air( $^{\circ}\text{C}$ )	80

### Physical Properties

Element	Value
Density( $\text{gcm}^{-3}$ )	7.59

## Mechanical Properties

<b>Element</b>	<b>Value</b>
Tensile modulus( GPa )	61
Hardness - Vickers( kgf mm <sup>2</sup> )	960
Tensile strength( MPa )	700