

# Magnetic Shielding Alloy Foil (Light Tight) (Ni77/Fe14/Cu 5/Mo 4)

**Formula:** Ni77/Fe14/Cu 5/Mo 4

**Thickness:** 0.0125mm

**Length 1:** 100mm

**Length 2:** 100mm

**UOM Code:** 016-833-89

**SKU:** 1000002046-group

**Product Code:** NI03-FL-000130

## Material Properties for Alloys

### Mechanical Properties

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

### Magnetic Properties

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

### Electrical Properties

Element	Value
Electrical resistivity( $\mu$ Ohmcm )	55-62

### Physical Properties

<b>Element</b>	<b>Value</b>
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Density( gcm <sup>3</sup> )	8.8
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### **Thermal Properties**

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