

# AISI 347 Stainless Steel Foil (Light Tight)

**Formula:** Fe/Cr18/Ni10/Nb

**Temper:** Annealed

**Thickness:** 0.05mm

**Length 1:** 10mm

**Length 2:** 10mm

**UOM Code:** 121-922-82

**SKU:** 1000032386-group

**Product Code:** FE23-FL-000110

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	160-190
Elongation at break( % )	60
Modulus of elasticity( GPa )	190-210
Izod impact strength( J m <sup>2</sup> )	20-136
Tensile strength( MPa )	520-1100

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	70-73

### Thermal Properties

Element	Value
Maximum use temperature in air( C )	800
Melting point( C )	1400-1425
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	16.3@100°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	16-18@20-100°C

### Physical Properties

Element	Value
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Density( gcm<sup>3</sup> ) 7.93