

# Hastelloy® C276 Foil (Light Tight)

**Formula:** Ni57/Mo17/Cr16/Fe/W/Mn

**Temper:** Annealed

**Thickness:** 0.5mm

**Length 1:** 100mm

**Length 2:** 100mm

**UOM Code:** 109-304-52

**SKU:** 1000022015-group

**Product Code:** NI14-FL-000130

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	80-200
Elongation at break( % )	52
Modulus of elasticity( GPa )	170-220
Izod impact strength( J m <sup>2</sup> )	42-100
Tensile strength( MPa )	550-900

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	125-130

### Thermal Properties

Element	Value
Maximum use temperature in air( C )	1090
Melting point( C )	1270-1390
Specific heat( J K <sup>-1</sup> kg <sup>-1</sup> )	427@23°C
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	10.1-12.5@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	10.8-11.3@20-100

### Physical Properties

<b>Element</b>	<b>Value</b>
Density( gcm <sup>3</sup> )	8.94