

# Hastelloy® C276 Foil

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

**Temper:** Annealed

**Thickness:** 0.15mm

**Length 1:** 100mm

**Length 2:** 100mm

**UOM Code:** 501-577-26

**SKU:** 1000159220-group

**Product Code:** NI14-FL-000100

## 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         |