

# Nickel/Chromium Alloy Foil (Light Tight) (Ni80/Cr20)

**Formula:** Ni80/Cr20

**Temper:** As Rolled

**Thickness:** 0.18mm

**Length 1:** 100mm

**Length 2:** 100mm

**UOM Code:** 016-511-15

**SKU:** 1000002022-group

**Product Code:** NI05-FL-000170

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	40
Tensile strength( MPa )	650-1100

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	108
Temperature coefficient( $\text{K}^{-1}$ )	0.00005

### Thermal Properties

Element	Value
Maximum use temperature in air( C )	1150-1250
Melting point( C )	1400
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	13.4@23°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	14@20-100°C

### Physical Properties

Element	Value
Density( $\text{gcm}^{-3}$ )	8.4