

# Nickel Silver Alloy Foil (Cu62/Ni18/Zn20)

**Formula:** Cu62/Ni18/Zn20

**Temper:** As Rolled

**Thickness:** 0.3mm

**Length 1:** 100mm

**Length 2:** 100mm

**UOM Code:** 837-371-06

**SKU:** 1000065420-group

**Product Code:** CU10-FL-000100

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	75-190
Elongation at break( % )	45
Modulus of elasticity( GPa )	120-135
Izod impact strength( J m <sup>2</sup> )	110-130
Shear strength( MPa )	290-400
Tensile strength( MPa )	400-700

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	29
Temperature coefficient( K <sup>-1</sup> )	0.0003

### Thermal Properties

Element	Value
Melting point( C )	1060-1110
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	28@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	16-17.1@25-300°C

### Physical Properties

<b>Element</b>	<b>Value</b>
Density( gcm <sup>3</sup> )	8.72