

# Copper/Beryllium Alloy Coil (Cu98/Be 2)

**Formula:** Cu98/Be 2

**Temper:** Half Hard

**Thickness:** 0.5mm

**Coil Width:** 305mm

**Length:** 1m

**UOM Code:** 001-348-62

**SKU:** 1000000158-group

**Product Code:** CU07-FL-000201

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	100-360
Elongation at break( % )	50
Modulus of elasticity( GPa )	120-160
Tensile strength( MPa )	500-1300

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	5.4-11.5
Temperature coefficient( $\text{K}^{-1}$ )	0.001-0.0018

### Thermal Properties

Element	Value
Melting point( C )	860-1000
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	60-120@23°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	17@25-300°C

### Physical Properties

Element	Value
Density( $\text{gcm}^{-3}$ )	8.25