

Copper/Beryllium Alloy Spooled Wire (Cu98/Be 2)

Formula: Cu98/Be 2
Product Shape: Spooled
Diameter: 0.5mm
Length: 50m
Temper: Hard
UOM Code: 796-972-55

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(μOhmcm)	5.4-11.5
Temperature coefficient(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(gcm^{-3})	8.25