

Phosphor Bronze Foil (Cu94/Sn 6)

Formula: Cu94/Sn 6

Temper: As Rolled

Thickness: 0.05mm

Length 1: 150mm

Length 2: 150mm

UOM Code: 084-359-09

SKU: 1000012158-group

Product Code: CU05-FL-000140

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	80-225
Elongation at break(%)	60
Modulus of elasticity(GPa)	90-120
Izod impact strength(J m ²)	62
Shear strength(MPa)	250-430
Tensile strength(MPa)	320-740

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	11.0-16.0
Temperature coefficient(K ⁻¹)	0.0006-0.0007

Thermal Properties

Element	Value
Melting point(C)	900-1050
Thermal conductivity(W m ⁻¹ K ⁻¹)	50-75@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	17@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	8.9