

# Phosphor Bronze Precursor Powder (Cu94/Sn 6)

**Formula:** Cu94/Sn 6

**Maximum Particle Size:** 150 $\mu$ m

**Weight:** 100g

**Type:** Alloy Pre-cursor

**UOM Code:** 141-351-38

**SKU:** 1000044136-group

**Product Code:** CU05-PD-000110

## 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 <sup>21</sup> )	62
Shear strength( MPa )	250-430
Tensile strength( MPa )	320-740

### Electrical Properties

Element	Value
Electrical resistivity( $\mu$ Ohmcm )	11.0-16.0
Temperature coefficient( K <sup>21</sup> )	0.0006-0.0007

### Thermal Properties

Element	Value
Melting point( C )	900-1050
Thermal conductivity( W m <sup>21</sup> K <sup>21</sup> )	50-75@23°C
Coefficient of thermal expansion( x10 <sup>??</sup> K <sup>21</sup> )	17@20-100°C

### Physical Properties

Element	Value
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Density( gcm<sup>3</sup> ) 8.9