

CW451K / PB102

**Chemical Properties**

Element	Chemical composition %
Copper (Cu)	Rem
Phosphorous	0.01 - 0.4
Tin (Sn)	4.5 - 5.5
Others	0.2

**Mechanical Properties**

Property	Value
Proof stress	140 - 850 Mpa
Tensile strength	320 - 950 MPa
Elongation	60-1%
Hardness Vickers	75 to 230 HB

**Physical Properties**

Property	Value
Density	8.85 Kg <sup>3</sup>
Melting point	930°C
Modulus of elasticity	121 GPa
Thermal conductivity	63 W/m.K
Electrical resistivity	0.096 x 10 <sup>-6</sup> Ω.m

**Product Forms**

Round Bar

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This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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