

BSB 23 / DTD197

## Additional Information

BS B 23 has similarities to the following standard designations and specification

BS 2872 / 4 CA104M

DTD197A

EN12163/5/7 CW307G

DIN 17665 / 17672 CuAl10Ni5Fe4, WN 2.0966

## Chemical Properties

Element	Chemical Composition %
Copper (Cu)	Balance
Aluminium (Al)	10.0
Nickel (Ni)	4.9
Iron (Fe)	4.7
Manganese (Mn)	0.3

## Mechanical Properties

Condition	Typical Size Range (mm)	0.2% Proof Rp0,2 (MPa)	UTS Rm (MPa)	Elongation 5.65 Sqr So (%)	Hardness (HB)
Extruded & Drawn	10 - 75	370 - 600	740 - 850	12 - 20	195 - 255
Rolled	50 - 175	320 - 500	700 - 800	15 - 25	180 - 240
Forged	> 175	320 - 500	700 - 800	15 - 25	180 - 240

## Physical Properties

Property	Value
Young's Modulus	125 GPa
Density	7.6 g/cm <sup>3</sup>
Melting Range	1060 - 1075 °C
Coefficient of Expansion (20 - 300 °C)	17 10 <sup>-6</sup> m/m °C
Thermal Conductivity	46 W/m K
Electrical Conductivity	8% IACS
Electrical Resistivity	0.216 10 <sup>-6</sup> Ω m
Relative Magnetic Permeability	1.5
Specific Heat	375 J/kg K

## Product Forms

Round Bar

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