

NON-FERROUS METALS

ALUMINIUM BRONZE to BS 1400: AB1

AB1 Aluminium Bronze, offering high strength, good wear resistance, good corrosion resistance, with high resistance to oxidation and good strength at elevated temperatures.

TYPICAL APPLICATIONS:

Marine, oil and chemical industry as valve fittings, pump rods, bolts, propellers, propeller shafts, spark plug bodies, heavy duty bearings, gear wheels, worm wheels, valve seats, pinions and non-sparking tools etc.

PRODUCTION RANGE:

Continuous Cast: **Solid & Hollow**
 Outside diameter 12mm – 305mm
 Inside diameter 12mm – 254mm
 Length 305mm – 3100mm
 In multiples of 305mm – 1000mm
 Round/hexagon/octagon
 Rectangular: Solid only

Centrifugal Cast: **Hollow only**
 Outside diameter 330mm – 560mm
 Inside diameter 175mm – 500mm
 Length 305mm – 1000mm

NB: Smaller I/D produced to order

CHEMICAL COMPOSITION

Copper	(Cu)	86% min
Tin	(Sn)	0.10% max
Zinc	(Zn)	0.50% max
Nickel	(Ni)	1.00% max
Aluminium	(Al)	8.50 – 9.50%
Iron	(Fe)	2.50 – 4.00%
Manganese	(Mn)	1.00% max
Lead	(Pb)	0.05% max

RELATED SPECIFICATIONS:

AS 1565	C95210
ASTM B505 & B271	952
SAE	CA952
UNS	C95200

Electrical conductivity 13%
 Freezing range 1050 - 1060°C (approx.)

OTHER:

Activity	Rating
Machinability	3
Pressure Tightness	1
Weldability (Mig)	1

1–4 in decreasing order of merit

TYPICAL MECHANICAL PROPERTIES :

0.2% Proof Stress MPa	Tensile Strength MPa	Elongation %	Hardness HB
170 - 200	450 - 550	20 – 35	110 - 140

Typical Mechanical Properties are for guidance only.

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