

NON-FERROUS METALS

ALUMINIUM BRONZE to BS 1400: AB2

AB2 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 high strength propellers, propeller shafts, valve fittings, worm wheels, pump rods, bolts, spark plug bodies, heavy duty bearings, gear wheels, valve seats, non-sparking tools and pinions 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)	79% min
Tin	(Sn)	0.10% max
Zinc	(Zn)	0.50% max
Nickel	(Ni)	4.00 – 5.00%
Aluminium	(Al)	8.50 – 9.50%
Iron	(Fe)	3.50 – 4.50%
Manganese	(Mn)	0.80 – 1.50%
Lead	(Pb)	0.05% max

RELATED SPECIFICATIONS:

AS 1565	C95810
ASTM B505 & B271	958
SAE	CA958
UNS	C95800

Electrical conductivity	8%
Freezing range	1055 - 1065°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
240 - 260	590 - 655	18 - 25	150 - 170

Typical Mechanical Properties are for guidance only.

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