

NON-FERROUS METALS

ALUMINIUM BRONZE: ALLOY 954

Alloy 954 Aluminium Bronze, offering high strength with good impact, wear and corrosion resistance, high resistance to oxidation and good strength at elevated temperatures, but poor anti-seizure properties.

TYPICAL APPLICATIONS:

High strength bearings, bushings, bolts, gears, gear wheels, guides, pump rods, propellers, pickling hooks, valve seats, worm wheels 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)	83% min
Nickel	(Ni)	1.50% max
Aluminium	(Al)	10.00 – 11.50%
Iron	(Fe)	3.00 – 5.00%
Manganese	(Mn)	0.50% max

OTHER ELEMENTS (*NOTES)

*Welding grade Pb 0.01% max.

RELATED SPECIFICATIONS:

AS 1565	C95400
ASTM B505 & B271	954
SAE	CA954
UNS	C95400

Electrical conductivity 13%
 Freezing range 1040°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
210 - 250	520 - 595	12 - 18	140 - 170

Typical Mechanical Properties are for guidance only.

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