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MATERIAL DATA SHEET

ALUMINIUM BRONZE

Common Name:- ALBC2C.

Conforms to JISH5121 CAC702C

Typical Applications:- high strength aluminium bronze similar to 954. High yield and tensile strength along with good ductility and wear resistance make it useful for bearings, gears, valve components, wear plates. Good general corrosion resistance. Needs to be well lubricated.

Chemical Composition %

Element		Nominal
Copper	Cu	80.0 – 88.0
Tin	Sn	0.1 max
Lead	Pb	0.1 max
Zinc	Zn	0.5 max
Nickel	Ni	1.0 – 3.0
Iron	Fe	2.5 – 5.0
Aluminium	Al	8.0 – 10.5
Manganese	Mn	0.1 – 1.5

Mechanical Properties

Ultimate Tensile Strength	540 MPa minimum
Yield Strength	220 MPa typical
Elongation	15% minimum
Hardness	120 BHN minimum
Machinability	60% (free machining brass = 100%)

Similar Standards:- AS1565 95400; ASTM B505 & B271 C95400; SAE J461