



James Coppel Lee

AS-1565 Grade C95400 (ALUM BRONZE)

SAND CASTINGS

ABOUT

C954 is high strength, with good wear and abrasion resistance.
 AB1 has reasonable machining properties (compared to AB2)
 AB1 retains good physical properties at elevated temperatures.
 AB1 has good corrosion resistance.

EQUIVALENT / SIMILAR *TO

Britain	
USA	ASTM B505-B271-C95400
Japan	JIS 5121 CAC701C (ALBC1C*)
Germany	DIN 1714- G- CuAl11F4

NOMINAL CHEMICAL ANALYSIS

CHEMICAL COMPOSITION (Maximum % Unless Otherwise Listed)									OTHER ELEMENTS (*NOTES)
Copper Cu	Tin Sn	Zinc Zn	Nickel Ni	Lead Pb	Phos P	Alum Al	Iron Fe	Mang Mn	
83.0 min			1.5	0.05		10.0- 11.5	3.0- 5.0	0.50	*Ni max. incl. Co.

MECHANICAL PROPERTIES

TENSILE (MPa)		ELONGATION (5-65/50% MIN.)		.2% PROOF (MPa)		HARDNESS (NB)	
Sand Cast		Sand Cast		Sand Cast		Sand Cast	
520		12		210			

Compressive Strength 0.1% Permanent Set	689 MPa (15,000 psi)
Specific Gravity	7.45
Machinability Rating (Free Machining Brass=100)	60
Max. Operating Temperature	260oC (500oF)
Stress Relieving Temperature	316oC (600oF)
Time at Temperature	1 hour per 25mm of section thickness

APPLICATIONS

- Bearings
- Wear Plates
- Pumps
- Marine , Chemical , Aircraft Parts
- Valves
- Rock Drill Parts
- Crusher Bearings
- Hose Nozzles
- Irrigation Equipment
- Rollers
- Washers
- Wear Rings