



James Coppel Lee

AB2 AS-1565 Grade C95810 (ALUM BRONZE)

SAND CASTINGS

ABOUT

AB2 has high strength with excellent corrosion resistance for marine conditions.

Is suitable for components of heavy load at slow speeds.

Has very good resistance to wear, fatigue and deformation.

Has very good acid resistance.

Has good anti- galling properties.

EQUIVALENT TO

Britain	BS1400 AB2-C
USA	ASTM B505-B271-C95800
Japan	JIS HS5121 CAC703C (ALBC3)
Germany	DIN 1714 G – CuAl10Ni

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	
79 min	0.10	0.50	4.0- 5.0	0.05		8.5- 9.5	3.5- 4.5	0.8- 1.5	*Ni max. incl. Co.

MECHANICAL PROPERTIES

TENSILE (MPa)		ELONGATION (5-65/50% MIN.)		.2% PROOF (MPa)		HARDNESS (RB)	
Sand Cast		Sand Cast		Sand Cast		Sand Cast	
590		18		240		77	

Compressive Strength 0.1% Permanent Set	100 MPa (15,000 psi)
Specific Gravity	7.6
Machinability Rating (Free Machining Brass=100)	50
Max. Operating Temperature	260oC (500oF)
Stress Relieving Temperature	316oC (600oF)
Time at Temperature	1 hour per 25mm of section thickness

APPLICATIONS

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