



James Coppel Lee

AB1 AS-1565 Grade C95210 (ALUM BRONZE)

CONTINUOUS CAST ROD, HOLLOW, PLATE

ABOUT

AB1 has good strength and wear 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	BS1400 AB1-C
USA	ASTM B505-B271-C95200*
Japan	JIS 5121 CAC701C (ALBC1C*)
Germany	DIN 17656 CuAl10Fe*

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	
86 min	0.10	0.50	1.0	0.05		8.5- 9.5	2.5- 4.0	1.0	*Ni max. incl. Co.

MECHANICAL PROPERTIES

TENSILE (MPa)		ELONGATION (5-65/50% MIN.)		.2% PROOF (MPa)		HARDNESS (NB)	
Continuous	Centrifugal	Continuous	Centrifugal	Continuous	Centrifugal	Continuous	Centrifugal
470	560	20	20	180	200	130	130

Compressive Strength 0.1% Permanent Set	100 MPa (15,000 psi)
Specific Gravity	7.6
Machinability Rating (Free Machining Brass=100)	60
Max. Operating Temperature	260oC (500oF)
Stress Relieving Temperature	315oC (600oF)
Time at Temperature	1 hour per 25mm of section thickness

ADVANTAGES OF CONTINUOUS CAST

Reduced Machining allowance, excellent mechanical properties. Complete freedom from gas and porosity, ensuring very good pressure tightness. 3 – 3.5 metre feed stock for machining

APPLICATIONS

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