



James Coppel Lee

AMS4640 Grade C63000 (ALUM BRONZE)

WROUGHT PRODUCT /EXTRUDED COLD DRAWN ROD

ABOUT C63000

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

USA

ASTM B150 C63000

Japan

Germany

CuAl10Ni5Fe4

NOMINAL CHEMICAL ANALYSIS

CHEMICAL COMPOSITION (Maximum % Unless Otherwise Listed)									OTHER ELEMENTS (*NOTES)
Copper Cu	Tin Sn	Zinc Zn	Nickel Ni	Silicon Si	Phos P	Alum Al	Iron Fe	Mang Mn	
REM	0.20	0.30	4.0- 5.5	0.25		9.0- 11.0	2.0- 4.0	1.5	

MECHANICAL PROPERTIES

TENSILE STRENGTH min			ELONGATION (in 4D MIN.)		YIELD STRENGTH .5% PROOF (MPa)			HARDNESS	
Drawn	MPa	KSi	Drawn		MPa	KSi		HB	HRB
Up to 1"	760	110	10		470	88		201-248	92 -99
1" to 2"	760	110	10		415	60		201-248	92 - 99
2" to 3"	725	105	10		380	55		187-241	89 -98
3" to 5"	690	100	10		345	50		187-241	89 - 98

Compressive Strength 0.1% Permanent Set	
Specific Gravity	
Machinability Rating (Free Machining Brass=100)	
Max. Operating Temperature	
Stress Relieving Temperature	
Time at Temperature	

APPLICATIONS

- Heavy Load Bearings
- Aircraft Parts
- Pump parts
- Marine, Chemical ,Desalination
- Valves guides
- Rock Drill Parts
- Crusher Bearings
- Heat exchanger flanges
- Irrigation Equipment
- Rollers
- Washers
- Wear Rings & plates