

LG2 AS-1565 Grade C83600 (GUN METAL)

SAND AND CHILL CASTINGS



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ABOUT

LG2 has excellent machining properties, medium strength, good pressure tightness and is not subject to dezincification (Category I alloy), and has reasonable corrosion resistance to seawater and brine, making it suitable for pump and valve components.

LG2 is suitable for bearings having light loads and low to medium speeds with adequate lubrication, and for very light duty gears when loading is negligible.

EQUIVALENT TO

Britain	BS1400 LG2-C
USA	SAE 40 ASTM 584-85a C83600
Japan	JIS HS111 BC6C
Germany	DIN 1705 G - CUSn5ZnPb

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	
84.0- 86.0	4.2- 6.0	4.5- 6.0		4.0- 6.0	0.05	0.005			*Ni max. incl. Co. *Ni max. 2.0 By Agreement *For Contrast - P 1.5 max... *Cu min. may incl. Ni *Fe + M + Sb .5 max. S .087Si .005

MECHANICAL PROPERTIES

TENSILE (NPa)		ELONGATION (5-65/50% MIN.)		.2% PROOF (MPa)		HARDNESS HB	
Sand Cast	Chill Cast	Sand Cast	Chill Cast	Sand Cast	Chill Cast	Sand Cast	Chill Cast
200	200	13	6	100	110	65	75

Compressive Strength 0.1% Permanent Set	100 MPa (15,000 psi)
Specific Gravity	8.8
Machinability Rating (Free Machining Brass=100)	84
Max. Operating Temperature	230oC (450oF)
Stress Relieving Temperature	260oC (500oF)
Time at Temperature	1 hour per 25mm of section thickness

APPLICATIONS

- General Purpose Bearings
- Hydraulics Ram Components
- Crank Gears
- Valve Seats
- Slide Valves
- Hose Nozzles
- Washers
- Irrigation Equipment
- Rollers
- Wear Rings & Plate