



LEADED GUNMETAL LG4

(BS 1400 1985 LG4)

Leaded Bronzes and Gunmetals offer better machining characteristics than other Bronzes while maintaining a good balance of corrosion resistance and strength. LG4 is a leaded Gunmetal Bronze conforming to the requirements of B.S. 1400 - 1985 alloy LG4. It has excellent machining properties, medium strength, good pressure tightness and is not subject to dezincification. It also has good corrosion resistance to seawater and brine, making it suitable for pump and valve components. LG4 is suitable for bearings having light loads and low to medium speeds with adequate lubrication. LG4 is preferred to LG2 where pump impeller peripheral velocities are higher (up to 25m/sec).

Chemical Composition - CuSn7Pb3Zn3

Element		%
Tin	Sn	6.00 - 8.00
Lead	Pb	2.70 - 3.50
Zinc	Zn	1.70 - 3.20
Nickel	Ni	2.00 maximum
Antimony	Sb	0.25 maximum
Iron	Fe	0.20 maximum
Arsenic	As	0.15 maximum
Sulphur	S	0.10 maximum
Phosphorus	P	0.02 maximum
Aluminium	Al	0.01 maximum
Silicon	Si	0.01 maximum
Copper	Cu	Balance
Total Impurities 0.70 maximum		

Typical Mechanical Properties

Ultimate Tensile Strength	250 - 320 MPa
Elongation (minimum)	16 - 25 %
Typical Hardness	70 - 85 BHN
Compressive Strength	130 - 140 MPa
Specific Gravity	8.8

Comparative Specifications

BS 1400 LG4	BS EN 1982-2008 GC CC492K
CuSn5Zn5Pb5-C	NES 838
AS1565-1985 C92410	AS1565-1974 924B
DIN 1705 2.1052.03	

To discuss your requirements, call a member of NovaCast's team on +44 (0) 1225 707466, or email sales@novacast.co.uk

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