



LEADED GUNMETAL LG2

(BS 1400 1985 LG2)

Leaded Bronzes and Gunmetals (also known as Red Brass) offer better machining characteristics than other Bronzes while maintaining a good balance of corrosion resistance and strength. LG2 is a general purpose leaded gunmetal conforming to the requirements BS1400 – 1985 alloy LG2. The substantial lead content gives it excellent machining qualities, it has medium strength, good pressure tightness and it is not subject to dezincification. LG2 has excellent resistance to superheated steam applications and has reasonable corrosion resistance to seawater and brine, making it suitable for pressure-tight pump and valve components, pump impellers, fittings and general engineering applications.

Chemical Composition - CuSn5Pb5Zn5

Element		%
Tin	Sn	4.00 - 6.00
Lead	Pb	4.00 - 6.00
Zinc	Zn	4.50 - 6.00
Nickel	Ni	2.00 maximum
Iron	Fe	0.25 maximum
Antimony	Sb	0.25 maximum
Sulphur	S	0.10 maximum
Silicon	Si	0.02 maximum
Phosphorus	P	0.02 maximum
Aluminium	Al	0.05 maximum
Copper	Cu	Balance
Total Impurities 0.80 maximum (Excl. Ni + P)		

Typical Mechanical Properties	
Ultimate Tensile Strength	200 - 270 MPa
Elongation (minimum)	13 - 25 %
Typical Hardness	65 - 75 BHN
Compressive Strength	100 - 130 MPa
Specific Gravity	8.8

Comparative Specifications	
BS 1400 LG2	BS EN 1982-2008 GC CC491K
CuSn5Zn5Pb5-C	ASTM B 505 C83600
ASTM B 271 C83600	ASTM B 584 C83600
QQC 390B Type 111	Mil-B-11553 Comp 2
Mil-C-14345 Alloy 1	SAE J461
SAE J462	SAE 40
AS 1565 1985 C83600	AS 1565 1974 836B
AMS 4855	JIS H5111
JIS H2203	DIN 1705 G-CuSn5Zn5Pb 2.1096.01
RG5	SS 5204-15

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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