Product Information Sheet

ISSUE A

ALLOY LG4

A. W. Fraser Alloy LG4 is a leaded gunmetal conforming to the requirements of B.S. 1400 - 1985 alloy LG4. (BS EN 1982 CuSn7Zn2Pb3)

LG4 has excellent machining properties, medium strength, good pressure tightness and is not subject to dezincification (Category I alloy). 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.

The composition of A. W. Fraser alloy LG4 is strictly controlled as are the casting conditions. LG4 products are manufactured using the latest continuous casting technology.

ALLOY LG4 - LEADED GUNMETAL 87/7/3/3 SUMMARY OF PROPERTIES

Chemical Composition - percent

Element			Nominal
Tin	Sn	6.0 - 8.0	6.5
Lead	Pb	2.5 – 3.5	3.0
Zinc	Zn	1.5 – 3.0	2.5
Nickel	Ni	1.0 maximum	
Iron	Fe	0.20 maximum	
Aluminium	Al	0.01 maximum	
Antimony	Sb	0.25 maximum	
Copper	Cu	Balance	
Total Impurities		0.70 maximum	

Mechanical Properties

	Continuous Cast
0.2% Proof Stress	130 MPa (18,800 psi) minimum
Ultimate Tensile Strength	300 MPa (43,500 psi) minimum
Elongation	13% minimum
Typical Hardness	80 BHN
Specific Gravity	8.8
Max. Operating Temperature	230^{O}C (450^{O}F)
Stress Relieving Temperature	260^{O}C (500^{O}F)
Time at Temperature	1 hour per 25mm of section thickness

Comparative Specifications

AS1565 C92410A; BS EN 1982 CuSn7Zn2Pb3