

Product Information Sheet

ISSUE A

ALLOY LG1

A. W. Fraser Alloy LG1 is a general purpose leaded gunmetal conforming to the requirements of B.S. 1400 - 1985 alloy LG1.

LG1 has excellent machining properties, and is not subject to dezincification (Category I alloy). It has reasonable corrosion resistance to seawater and brine, making it suitable for plumbing supplies, pump and low pressure valve components.

The composition of A. W. Fraser alloy LG1 is strictly controlled as are the casting conditions. LG1 products are manufactured using the latest continuous and centrifugal casting technology.

ALLOY LG1 - LEADED GUNMETAL (85-3-9-5)

SUMMARY OF PROPERTIES

Chemical Composition - percent

Element		Nominal	
Tin	Sn	2.0 – 3.5	3.0
Lead	Pb	4.0 - 6.0	5.5
Zinc	Zn	7.0 – 9.5	9.0
Nickel	Ni	2.0 maximum	
Iron	Fe	0.40 maximum	
Aluminium	Al	0.01 maximum	
Antimony	Sb	0.25 maximum	
Copper	Cu	Balance	
Total Impurities		1.0 maximum	

Mechanical Properties

Yield Strength (minimum)
Ultimate Tensile Strength (minimum)
Elongation
Typical Hardness

Continuous Cast

80 Mpa (11,600 psi)
180 Mpa (26,100 psi)
11% minimum
65 BHN

Specific Gravity
Machinability Rating (Free Machining Brass=100)
Max. Operating Temperature
Stress Relieving Temperature
Time at Temperature

8.8
84
230°C (450°F)
260°C (500°F)
1 hour per 25mm of section thickness

Comparative Specifications

AS1565 83810A; ASTM B505, B271 - 84400*

* Similar but not identical;