THAMES STOCKHOLDERS
A Division of SMITHS

LB4

LEADED BRONZE ALLOY

Product Overview

LB4 is a continuously cast leaded bronze alloy which finds typical use in non-critical bearing applications under low loads.

The alloy includes 5% tin and 9% lead and benefits from good corrosion and wear resistance with reasonable ductility and good machinability. The product is classed as a general-bearing alloy and finds suitability in environments where positioning issues and a lack of lubrication are present. LB4 provides medium overall strength.

Availability:

- Bar

Key Features

- Good wear & corrosion resistance
- Medium strength
- Good machinability
- Reasonable ductility

Applications

- Shafts & bushes
- Non-critical, low-load applications
- Light load bearings
- Pump impellors

* Chemical Composition (weight, %)

	Cu	Sn	Zn	Pb	P	Ni	Sb	Fe	Al	Mn	Si	S	Others
Min.	Rem	4.00		8.00									
Max.	Rem	6.00	2.00	10.00	0.10	2.00	0.50	0.25	0.01	0.20	0.02	0.10	0.50

* Properties as per BS 1400

* Mechanical Properties

	Sand Cast	Chill Cast	Continuous Cast	Centrifugal Cast
Ultimate Tensile Strength	160 N/mm²	200 N/mm²	230 N/mm²	220 N/mm²
0.2% Proof Strength	60 N/mm²	80 N/mm²	130 N/mm²	80 N/mm²
Elongation	7%	5%	9%	6%

* Properties as per BS 1400 (minimum unless stated)

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