

NON-FERROUS METALS

LEADED GUNMETAL BRONZE to BS 1400: LG2

LG2 Leaded Gunmetal Bronze, offering excellent machinability, excellent wear resistance at normal lubrication, high resistance to seizure and good corrosion resistance. This grade is also known as “Red Brass”.

TYPICAL APPLICATIONS:

Pressure tight requirements, valve and pump bodies, pump impellers, fittings for gasoline and oil lines, bushings, general engineering applications etc.

PRODUCTION RANGE:

Continuous Cast:	Solid & Hollow
Outside diameter	12mm – 305mm
Inside diameter	12mm – 254mm
Length	305mm – 3100mm
In multiples of	305mm – 1000mm
Round/hexagon/octagon	
Rectangular:	Solid only

Centrifugal Cast:	Hollow only
Outside diameter	330mm – 560mm
Inside diameter	175mm – 500mm
Length	305mm – 1000mm

NB: Smaller I/D produced to order

CHEMICAL COMPOSITION

Copper	(Cu)	84 – 86%
Tin	(Sn)	4 – 6%
Zinc	(Zn)	4 – 6%
Lead	(Pb)	4 – 6%
Phosphorus	(P)	0.05% max
Aluminium	(Al)	0.005% max

OTHER ELEMENTS (NOTES)

Nickel max 2% by agreement

Fe + As + Sb 0.5% max

S 0.08%, Si 0.005%

RELATED SPECIFICATIONS:

AS 1565-1985	C83600
ASTM B505 & B271	836
SAE	40
UNS	C83600

Electrical conductivity 15%

Freezing range 888 - 1045°C (approx.)

OTHER:

Activity	Rating
Machinability	1
Pressure Tightness	1
Weldability (Mig)	3

1–4 in decreasing order of merit

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www.stainless.steelandtube.co.nz

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TYPICAL MECHANICAL PROPERTIES

Casting	0.2% Proof Stress MPa	Tensile Strength MPa	Elongation %	Hardness HB
Centrifugal	110 min	220 min	8 min	80
Continuous	100 min	270 min	13 min	75

Typical Mechanical Properties are for guidance only.