

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

Typical Mechanical Properties – for guidance only

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