

CONTINUOUS & CENTRIFUGALLY CAST BRONZE 83600A (LG2)

Solid and Hollows

RELATIVE SPECIFICATIONS:

Australia	AS 1565-1998
Great Britain	BS 1470-LG2
Germany	DIN 1705-RG5
Japan	JIS H511-BC6
USA	ASTM 83600/SAE40
INTERNATIONAL	ISO 1338-CuPb5Sn5Zn5

DESCRIPTION:

Bronze alloy LG2 is a general purpose leaded gun-metal conforming to the requirements of Australian standard and the equivalent to British Standard alloy LG2. Due to substantial amount of lead (Pb) 83600A has excellent machining qualities, medium strength, good pressure tightness and is not subject to dezincification (Category 1 alloy). Has excellent resistance to superheated steam applications and has reasonable corrosion resistance to seawater and brine, making it suitable for pump and valve components.

APPLICATIONS:

LG2 is suitable for bearings having light loads and low to medium speeds with adequate lubrication, and for very light duty gears when loading is negligible. Unsuitable for welding.

CHEMICAL ANALYSIS:

83600A	Copper	Lead	Iron	Tin	Zinc	Aluminium	Silicon	*Nickel	*Other		
Min	REM	4.00		4.00	4.00						
Max		6.00	0.30	6.00	6.00	0.005	0.005	1,0	Sb0.25%	S 0.08%	P 0.05%

*Continuous castings P = 1.5% *Nickel can be 2% max. by agreement

MECHANICAL PROPERTIES:

Form of Casting	Yield 2% Proof stress Mpa Min.	Tensile Strength Mpa Min	Elongation L=5.65 Squared	Hardness HB Min
Continuous	100	270	13	75
Centrifugal	110	220	8	80

MACHINING ALLOWANCE:

All sizes have the following allowance for finish machining.

< 3 ¹ / ₄ "	OD	+	.040"
	ID	-	.060"
> 4"	OD	+	.070"
	ID	-	.090"
> 5"	OD	+	.094"
	ID	-	.108"
> 6"	OD	+	.109"
	ID	-	.120"

NOTE: Allowances are approximate

COLOUR CODE:



DISCLAIMER: This specification is for information purposes only. Global Metals takes no responsibility for the suitability of the steels referred to in this specification without prior notification. Global Metals takes no responsibility for any errors¹ or omissions, or for any consequences resulting from its use.

CONTINUOUS CAST BRONZE Solid & Hollows STOCK SIZES

SOLID / O.D. Metric	SOLID / O.D. Imperial	I.D. Metric	I.D. Imperial
12.7	1/2"		
15.88	5/8"		
19.05	3/4"		
22.23	7/8"		
25.4	1"	12.7/19.05	½"/¾"
28.58	1-1/8"		
31.75	1-1/4"	12.7/19.05/25.4	½"/¾"/1"
34.93	1-3/8"		
38.1	1-1/2"	12.7/19.05/25.4/50.8	1/2"/¾"/1"/2"
41.28	1-5/8"		
44.45	1-3/4"	19.05/25.4/31.75/38.1	¾"/1"/1-1/4"/1-1/2"
47.63	1-7/8"		
50.8	2"		
57.15	2-1/4"	19.05/25.4/31.75/38.1	¾"/1"/1-1/4"/1-1/2"
63.5	2-1/2"	19.05/25.4/31.75/38.1/44.45/50.8	¾"/1"/1-1/4"/1-1/2"/1-3/4"/2"
69.85	2-3/4"		
76.2	3"	25.4/38.1/50.8/57.15/63.5	1"/1-1/2"/2"/2-1/4"/2-1/2"
82.55	3-1/4"		
88.9	3-1/2"		
95.25	3-3/4"		
101.6	4"	25.4/38.1/50.8/63.5/76.2/88.9	1"/1-1/2"/2"/2-1/2"/3"/3-1/2"
107.95	4-1/4"		
114.3	4-1/2"	50.8/63.5/76.2/88.9/101.6	2"/2-1/2"/3"/3-1/2"/4"
120.65	4-3/4"		
127	5"	50.8/63.5/76.2/88.9/101.6/114.3	2"/2-1/2"/3"/3-1/2"/4"/4-1/2"
139.7	5-1/2"	50.8/63.5/76.2/88.9/114.3	2"/2-1/2"/3"/3-1/2"/4-1/2"
152.4	6"	50.8/63.5/50.8/76.2/88.9/101.6/114.3/127	2"/2-1/2"/3"/3-1/2"/4"/4-1/2"/5"
165.1	6-1/2"	76.2/88.9/114.3/127/139.7	3"/3-1/2"/4-1/2"/5"/5-1/2"
177.8	7"	101.6/127/139.7/152.4	4"/5"/5-1/2"/6"
190.5	7-1/2"	101.6/152.4/165.1	4"/6"/6-1/2"
203.2	8"	127/152.4/177.8	5"/6"/7"
	8-1/2"	152.4/165.1	6"/6-1/2"
228.6	9"	127/152.4/177.8/203.2	5"/6"/7"/8"
254	10"		
279.4	11"		
304.8	12"		

CENTRIFUGALLY CAST BRONZE Solids STOCK SIZES

SOLID Metric	SOLID Imperial
330.2	13"
355.6	14"
381	15"
406.4	16"
431.8	17"
457.2	18"
482.6	19"
508	20"
533.4	21"
558.8	22"