

Leaded Tin Bronze Casting Chemical Composition

We use the following Leaded Tin Bronze Chemical Composition in our casting process.

Copper Alloy Standards	CU	SN	РВ	ZN	FE	NI	Р	AL	SI	SB	Impurities
BS: 1400, Grade LG - 1	Rem.	2 - 3.5	3 - 6	7 - 9.5		2.0	0.05	-	-	-	-
BS: 1400, Grade LG - 2	Rem.	4 - 6	4 - 6	4-6	-	2.0	0.1			-	
BS: 1400, Grade LG - 4	Rem.	6 - 8	2.5 - 3.5	1.5 - 3.5	-	2.0	0.1		-37	c	
BS: 1400, Grade LB - 1	Rem.	6 - 8	13 - 17	2.0	-	0.5 - 2	0.10	. 1/1	OLL	-	-
BS: 1400, Grade LB – 2	Rem.	9 - 11	8 - 11	2.0	-	2.0	0.10	16.	-	-	-
BS: 1400, Grade LB – 4	Rem.	4-6	8 - 10	2.0	مدء	2.0	0.10	-	-	-	-
BS: 1400, Grade LB - 5	Rem.	4-6	18 - 23	2.0	C/Fri	0.5 - 2	0.10	-	-	-	-
IS: 318-1981, Grade LTB - 1	Rem.	6-8	2.5 - 3.5	1.5 - 3	0.30	2.0	-	0.01	0.01	0.30	0.70
IS: 318-1981, Grade LTB - 2	Rem.	4-6	4-6	4-6	0.35	2.0	-	0.01	0.02	0.40	0.80
IS: 318-1981, Grade LTB - 3	Rem.	6-8	9 - 11	0.75	0.35	2.0		0.01	0.02	0.50	0.80
IS: 318-1981, Grade LTB - 4	Rem.	6-8	14 - 16	0.75	0.35	2.0	-	-	0.02	0.50	0.80
IS: 318-1981, Grade LTB - 5	Rem.	9 - 11	8.5 - 11	1.0	0.35	2.0	-	0.01	0.02	0.50	0.80
IS: 318-1981, Grade LTB - 6	Rem.	4-6	18 - 23	1.0	0.35	2.0	-	-	0.01	0.50	0.80

Leaded Tin Bronze Casting Mechanical Properties

The mechanical properties of leaded tin bronze are given in the following table.

Copper Alloy Standards	Tensile Strength (Min.)	Elongation % (Min.)	Brinell Hardness (Min.)		
BS: 1400, Grade LG - 1	220 Mpa.	12%	70 BHN.		
BS: 1400, Grade LG - 2	230 Mpa.	10%	65 BHN.		
BS: 1400, Grade LG - 4	240 Mpa.	12%	70 BHN.		
BS: 1400, Grade LB - 1	200 Mpa.	8%	65 BHN.		
BS: 1400, Grade LB – 2	220 Mpa.	5%	65 BHN.		
BS: 1400, Grade LB – 4	200 Mpa.	6%	60 BHN.		
BS: 1400, Grade LB - 5	175 Mpa.	6%	50 BHN.		
IS: 318-1981, Grade LTB - 1	250 Mpa.	16%	70 BHN.		
IS: 318-1981, Grade LTB – 2	190 Mpa.	13%	65 BHN.		
S: 318-1981, Grade LTB - 3	175 Mpa.	4%	60 BHN.		
IS: 318-1981, Grade LTB - 4	160 Mpa.	4%	65 BHN.		
S: 318-1981, Grade LTB - 5	190 Mpa.	5%	65 BHN.		
IS: 318-1981, Grade LTB - 6	140 Mpa.	5%	40 BHN.		

☆: 11/2/4, Kedarnath Dauty Lane, Kadamtala, Howrah - 711101, West Bengal, India.

S: +91 33 2667 4666 ☐: +91 9831873320 / +91 9903685500 / +91 9433067483

: napenggworks@gmail.com / sales@napenggworks.com / info@napenggworks.com