

Cutech Alloys Private Limited

LEADED BRONZE

British - Std UK. (BS:1400)

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	Sb	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
LB-1		Rem.	8-10	13-17	1		2		0.1			0.02					0.3
LB-2		Rem.	9-11	8.5-11	1	0.15	2		0.1	0.01		0.02	0.5				0.5
LB-4		Rem.	4-6	8-10	2		2		0.1			0.02	0.5				0.5
LB-5		Rem.	4-6	18-23	1		2		0.1			0.01	0.5				0.3
LPB-1		Rem.	6.5-8.5	2-5	2		1		0.3-0.6								0.5

France - NFA53

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
CuPb20Sn5		Rem	4-6	18-23	2	0.25	2.5		0.01		0.01					1
CuSn10Pb10		Rem	9-11	8-11	2	0.25	2	0.3	0.01		0.01					1

GERMANY- DIN

COPPER ALLOYS	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
G-CuPb10Sn		78-81	9.2-11	8.5-10.5	0.8	0.15	1.3	0.03	0.01	0.1	0.01	0.3	0.08			0.5
G-CuPb15Sn		75-78	7.3-9	13.5-16.5	2	0.15	1.8	0.03	0.01	0.1	0.01	0.4	0.08			0.5
G-CuPb20Sn		70-75	3.7-5.5	18.5-23	2	0.15	2.3	0.03	0.01	0.1	0.01	0.4	0.08			0.5
G-CuPb22Sn		70-80	0.5-3	18-26	0.5	0.7	2.5	0.03				0.2				1.2
G-CuPb5Sn		84-86.5	9.5-11	4.3-5.8	0.8	0.15	1.3	0.03	0.01	0.1	0.01	0.25	0.08			0.5
G-PbBz25		Rem	3	18-28	3	0.7	2.5	0.05				0.5				1
G-SnPbBz10		Rem	9-11	8-12												
G-SnPbBz15		Rem	6-8	13-18	3	0.25	2	0.05				0.5				0.5
G-SnPbBz20		69-77	3.5-5.5	18-23	3	0.25	2.5	0.05				0.5				0.5
G-SnPbBz22		Rem	2-5	18-25												
G-SnPbBz5		Rem	9-11	3-7												

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INDIA- IS

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
Leaded Bz. Class-3	IS:1458-1965	Rem.	6-8	14-16	0.5	0.3		0.05	0.01			0.4				0.7
Leaded Bz. Class-4	IS:1458-1965	Rem.	6-8	9-11	0.5	0.3		0.05	0.01			0.4				0.7
Leaded GM. Class-5	IS:1458-1965	Rem.	4-6	4-6	4-6	0.3		0.05	0.01			0.3				0.6
LTB-3	IS:318-1981	Rem.	6-8	9-11	0.75	0.35	2		0.01		0.02	0.5	0.8			
LTB-4	IS:318-1981	Rem.	6-8	14-16	0.75	0.35	2				0.02	0.5	0.8			
LTB-5	IS:318-1981	Rem.	9-11	8.5-11	1	0.35	2		0.01		0.02	0.5	0.8			
LTB-6	IS:318-1981	Rem.	4-6	18-23	1	0.35	2				0.01	0.5	0.8			

EUROPE- EN 1982: 1998

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
CuSn10Pb10	(CB495K)	78-81.5	9.2-11	8.2-10.5	2	0.2	2	0.1	0.01	0.2	0.01	0.5	0.08			
CuSn11Pb2	(CB482K)	83.5-86.5	10.7-12.5	0.7-2.5	2	0.15	2	0.05	0.01	0.2	0.01	0.2	0.08			
CuSn3Zn8Pb5	(CB490K)	81-85.5	2.2-3.5	3.5-5.8	7.5-10	0.5	2	0.03	0.01		0.01	0.25	0.08			
CuSn5Pb20	(CB497K)	70-77.5	4.2-6	19-23	2	0.2	0.5-2.5	0.1	0.01	0.2	0.01	0.75	0.08			
CuSn5Pb9	(CB494K)	80-86.5	4.2-6	8.2-10	2	0.2	2	0.1	0.01	0.2	0.01	0.5	0.08			
CuSn7Pb15	(CB496K)	74-79.5	6.2-8	13.2-17	2	0.2	0.5-2	0.1	0.01	0.2	0.01	0.5	0.08			

ITALY- UNI

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
B Pb 4	UNI1698	85-87	9-11	2-6	1	0.1	0.2			0.05		0.1				
BS Pb 12	UNI1698	79-81	7-9	8-13	0.1	0.2	1			1		0.3				
BS Pb 30	UNI1698	64-68	2.5-3.5	28-32	0.1	0.2	1			0.05		0.2				
BS Pb 7	UNI1698	78-81	9-11	6-8	0.1	0.3	2.5-3.5			0.05		0.2				
BS Pb 8	UNI1698	82-86	6-8	7-9	1	0.3	1			1		0.2				
G-CuSn10Pb10	UNI7013	Rem	9-11	8.5-10.5	1	0.15	1.5	0.01		0.05		0.50	0.2	1		
G-CuSn5Pb20	UNI7013	Rem	4-6	19-23	1.5	0.15	2	0.01		0.05		0.75	0.2	0.5		
G-CuSn8Pb15	UNI7013	Rem	7-9	13-17	1	0.15	2	0.01		0.05		0.50	0.2	1		

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JAPAN- JIS

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
LBC2	H2207	82-86	9-11	4-6	1	0.3	1	0.1	0.01		0.01	0.3				
LBC3	H2207	77-81	9-11	9-11	1	0.3	1	0.1	0.01		0.01	0.5				
LBC4	H2207	74-78	7-9	14-16	1	0.3	1	0.1	0.01		0.01	0.5				
LBC5	H2207	70-76	6-8	16-22	1	0.3	1	0.1	0.01		0.01	0.5				

USA - ASTM

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
C92410		Rem.	6-8	2.5-3.5	1.5 - 3	0.2	0.200		0.005	0.05	0.005	0.25				
C93400		82-85	7-9	7-9	0.8	0.2	1.000	0.5	0.005		0.005	0.5	0.08			
C93500		83- 86	4.3-6	8-10	2	0.2	1.000	0.05	0.005		0.005	0.3	0.08			
C93600		79-83	6- 8	11-13	1	0.2	1.000	0.15	0.005		0.005	0.55	0.08			
C93700		78-82	9-11	8-11	0.8	0.7	0.5	0.1	0.005		0.005	0.5	0.08			
C93720		83 Min	3.5-4.5	7-9	4	0.7	0.5	0.1				0.5				
C93800		75-79	6.3-7.5	13-16	0.8	0.15	1	0.05	0.005		0.005	0.8	0.08			
C93900		76.5-79.5	5-7	14-18	1.5	0.4	0.8	0.15	0.005		0.005	0.5	0.08			
C94000		69-72	12-14	14-16	0.5	0.25	0.50-1	0.05	0.005		0.005	0.5	0.08			
C94100		72-79	4.5-6.5	18-22	1	0.25	1	0.5	0.005		0.005	0.8	0.08			
C94300		67-72	4.5-6	23-27	0.8	0.15	1	0.08	0.005		0.005	0.8	0.08			
C94.310		Rem.	1.5-3	27-34	0.5	0.5	0.25-1	0.05				0.5				
C94320		Rem.	4-7	24-32		0.35										
C94330		68.5-75.5	3-4	21-25	3	0.7	0.5	0.1								
C94400		Rem.	7-9	9-12	0.8	0.15	1	0.5	0.005		0.005	0.5				
C94500		Rem.	6-8	16-22	1.2	0.25	1	0.05	0.005		0.005	0.8	0.08			
C98200		Rem.	0.6-2	21-27	0.5	0.7	0.5	0.1				0.8	0.08			
C98400		Rem.	0.5	26-33	0.5	0.7	0.5	0.1				0.5				
C98600		60-70	0.5	30-40		0.35										
C98800		56.5-62.5	0.25	37.5-42.	0.1	0.35		0.02								
C98820		Rem.	1-5	40-44		0.35										
C98840		Rem.	1-5	44-58		0.35										

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