

# Cutech Alloys Private Limited

## BRASS

### BRITISH - STD UK. (BS:1400)

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
DCB 1		59-63		0.25	Rem.				0.5					0.75
DCB 3		58-63	1	0.5-2.5	Rem.	0.8	1		0.2-0.8	0.5	0.05			2
PCB 1		57-60	0.5	0.5-2.5	Rem.	0.3			0.5					0.5
SCB 1		70-80	1-3	2-5	Rem.	0.75	1.00		0.01					1
SCB 3		63-70	1.5	1-3	Rem.	0.75	1		0.1					1
SCB 4		60-63	1-1.5	0.5	Rem.				0.01					0.75
SCB 6		83-88		0.5	Rem.									1

### France - NFA53

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuZn33PbY20	703	65-70	0.8	1.8	Rem	0.5	0.5	0.05	0.1	0.2	0.05			
CuZn40Y30	703	59-63	0.7	0.5-2	Rem	0.5	0.8		0.2-0.8	0.5	0.05			
CuZn40Y40	703	59-63	0.7	0.5-2	Rem	0.5	0.8		0.2	0.5	0.2			

### INDIA- IS

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
Grade-2	IS:8631-1977	55 Min	1	0.5	Rem.	0.7 - 2	1		0.5-2.5	3	0.1			
LCB-1	IS:292-1983	70-77	1-3	2-5	Rem.	0.5			0.01					
LCB-2	IS:292-1983	63-67	1.5	1-3	Rem.	0.5			0.01					

### EUROPE- EN 1982:1998

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuZn16Si4	(CB761S)	78.5-82	0.25	0.6	Rem.	0.5	1	0.02	0.1	0.2	3-5	0.05		
CuZn33Pb2	(CB750S)	63-66	1.5	1-2.8	Rem.	0.7	1	0.02	0.1	0.2	0.04			
CuZn33Pb2Si	(CB751S)	63.5-85.5	0.8	0.8-2	Rem.	0.25-0.5	0.8		0.1	0.1	0.70-1	0.05		
CuZn35Pb2Al	(CB752S)	61.5-65	0.4	1.5-2.4	Rem.	0.3	0.25		0.3-0.7	0.15	0.02	0.04- 0.12		
CuZn37Al1	(CB766S)	60-63	0.4	0.4	Rem.	0.4	1.8	0.02	0.6-1.8	0.4	0.5	0.05		
CuZn37Pb2Ni1AlFe	(CB753S)	58-60	0.8	1.8-2.5	Rem.	0.5-0.8	0.5-1.2	0.02	0.4-0.8	0.2	0.05	0.05		

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Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuZn38Al	(CB767S)	59-64	0.1	0.1	Rem.	0.4	0.8	0.05	0.1-0.8	0.4	0.05			
CuZn39Pb1Al	(CB754S)	58-62	0.1	0.5-2.4	Rem.	0.7	1	0.02	0.1-0.8	0.5	0.05			
CuZn39Pb1AlB	(CB755S)	59-60.5	0.3	1.2-1.7	Rem.	0.05-0.2	0.2		0.4-0.65	0.05	0.03			

## ITALY- UNI

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
G-CuZn34Pb2	UNI5036	62-65	1	1.5-2.5	Rem	0.6	1	0.1	0.05	0.5	0.05	0.1		
G-CuZn36	UNI5034	62-65	0.5	0.4	Rem	0.35	0.5	0.05	0.05	0.4	0.05	0.05		
G-CuZn38Pb2	UNI5035	59.5-82	1.3	1.5-2.5	Rem	0.6	1	0.05	1	0.7	0.3	0.1		
G-CuZn40	UNI5033	59- 61	0.5	0.5	0.25	0.5	0.5	0.05	0.35	0.3	0.05	0.15		

## JAPAN- JIS.

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
SzBC1		84-88	0.1		9-11				0.5		3.5-4.5			
SzBC2		78.5-82.5	0.3		14-16				0.3		4-5			
SzBC3		80-84	0.2		13-15	0.3			0.3	0.2	3.2-4.2			
YBsC1	H2202	83-88	0.1	0.5	11-17	0.2	0.2		0.2					
YBsC2	H2202	65-70	1	0.5-3	25-34	0.8	1		0.5					
YBsC3	H2202	58-64	1	0.5-3	30-41	0.8	1		0.5					

## GERMANY- DIN

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuSn3Zn9	(CW454K)	Rem	1.5-3.5	0.1	7.5-10	0.1	0.2	0.2						0.2
CuZn10	(CW501L)	89-91	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn13Al1Ni1Si	(CW70OR)	81-84	0.1	0.05	Rem.	0.25	0.8-1.4		0.7-1.2	0.1	0.8-1.3			0.5
CuZn15	(CW502L)	84-86	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn19Sn	(CW701R)	80-82	0.2-0.5	0.05	Rem.	0.05	0.3							0.2
CuZn20	(CW503L)	79-81	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn20Al2			70-72.5		0.07	Rem.	0.07	0.1	0.01	1.8-2.3	0.1			0.1
CuZn28	(CW504L)	71-73	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn28Sn1			70-72.5	0.9-1,3	0.07	Rem.	0.07	0.1	0.01		0.1			0.1

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Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuZn30	(CW505L)	69-71	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn33	(CW506L)	66-68	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn35Pb1	(CW600N)	62.5-64	0.1	0.8-1.6	Rem.	0.1	0.3		0.05					0.1
CuZn35Pb2	(CW601N)	62-63.5	0.1	1.6-2.5	Rem.	0.1	0.3		0.05					0.1
CuZn36	(CW507L)	63.5-65.5	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn36Pb2Sn1	(CW711R)	59-.5-61.5	0.5-1	1.3-2.2	Rem.	0.1	0.3							0.2
CuZn36Pb3	(CW603N)	60-62	0.2	2.5-3.5	Rem.	0.3	0.3		0.05					0.2
CuZn36Sn1Pb	(CW712R)	61-63	1-1.5	0.2-0.6	Rem.	0.1	0.2							0.2
CuZn37	(CW508L)	62-64	0.1	0.1	Rem.	0.1	0.3		0.05					0.1
CuZn37Pb0.5	(CW604N)	62-64	0.2	0.1-0.8	Rem.	0.1	0.3		0.05					0.2
CuZn37Pb1	(CW605N)	61-62	0.2	0.8-1.6	Rem.	0.2	0.3		0.05					0.2
CuZn37Pb1Sn1	(CW714R)	59-61	0.5-1	0.4-1	Rem.	0.1	0.3							0.2
CuZn37Pb2	(CW606N)	61-62	0.2	1.6-2.5	Rem.	0.2	0.3		0.05					0.2
CuZn38Pb1	(CW607N)	60-61	0.2	0.8-1.6	Rem.	0.2	0.3		0.05					0.2
CuZn38Pb2	(CW608N)	60-61	0.2	1.6-2.5	Rem.	0.2	0.3		0.05					0.2
CuZn38Pb4	(CW609N)	57-59	0.3	3.5-4.2	Rem.	0.3	0.3		0.05					0.2
CuZn38Sn1		59-62	0.5-1	0.2	Rem.	0.1	0.2							0.5
CuZn38SnAl		59-60.7	0.3-0.6	0.3-0.7	Rem.	0.1-0.4	0.2-0.5		0.1-0.5					0.5
CuZn39Pb0.5	(CW610N)	59-60.5	0.2	0.2-0.8	Rem.	0.2	0.3		0.05					0.2
CuZn39Pb1	(CW611N)	59-60	0.2	0.8-1.6	Rem.	0.2	0.3		0.05					0.2
CuZn39Pb2	(CW612N)	59-60	0.3	1.6-2.5	Rem.	0.3	0.3		0.05					0.2
CuZn39Pb2Sn	(CW613N)	59-60	0.2-0.5	1.6-2.5	Rem.	0.4	0.3		0.1					0.2
CuZn39Pb3	(CW614N)	57-59	0.3	2.5-3.5	Rem.	0.3	0.3		0.05					0.2
CuZn39Pb3Sn	(CW615N)	57-59	0.2-0.5	2.5-3.5	Rem.	0.4	0.3		0.1					0.2
CuZn39Sn1	(CW719R)	59-61	0.5-1	0.2	Rem.	0.1	0.2							0.2
CuZn40	(CW509L)	59.5-61.5	0.2	0.3	Rem.	0.2	0.3		0.05					0.2
CuZn40Pb1A1	(CW616N)	57-59	0.2	1-2	Rem.	0.2	0.2		0.05-0.3					0.2
CuZn40Pb2	(CW617N)	57-59	0.3	1.6-2.5	Rem.	0.3	0.3		0.05					0.2
CuZn40Pb2A1	(CW618N)	57-59	0.3	1.6-3	Rem.	0.3	0.3		0.05-0.5'					0.2
CuZn40Pb2Sn	(CW619N)	57-59	0.2-0.5	1.6-2.5	Rem.	0.4	0.3		0.1					0.2
CuZn41Pb1A1	(CW620N)	57-59	0.3	0.8-1.6	Rem.	0.3	0.3		0.05-0.5'					0.2





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Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
C28000		59-63		0.3	Rem.	0.07								
C31200		87.5-90.5		0.7-1.2	Rem.	0.1	0.25							
C31400		87.5-90.5		1.3-2.5	Rem.	0.1	0.7							
C31600		87.5-90.5		1.3-2.5	Rem.	0.1	0.7 - 1.2	0.04 - 0.1						
C32000		83.5-86.5		1.5-2.2	Rem.	0.1	0.25							
C33000		65-68		0.25-0.7	Rem.	0.07								
C33200		65-68		1.5-2.5	Rem.	0.07								
C33500		62- 65		0.25-0.7	Rem.	0.15								
C34000		62-65		0.8-1.5	Rem.	0.15								
C34200		62-65		1.5-2.5	Rem.	0.15								
C34500		62-65		1.5-2.5	Rem.	0.15								
C35000		60-63		0.8-2	Rem.	0.15								
C35300		60-63		1.5-2.5	Rem.	0.15								
C35330		59-64		1.5-3.5	Rem.									
C35600		60-63		2-3	Rem.	0.15								
C36000		60-63		2.5-3.7	Rem.	0.35								
C36500		58-61	0.25	0.25-0.7	Rem.	0.15								
C37000		59-62		0.8-1.5	Rem.	0.15								
C37100		58-62		0.6-1.2	Rem.	0.15								
C37700		58-61		1.5-2.5	Rem.	0.3								
C37710		56.5-60		1-3	Rem.	0.3								
C38000		55-60	0.3	1.5-2.5	Rem.	0.35			0.5					
C38500		55-59		2.5-3.5	Rem.	0.35								
C40400		Rem.	0.35-0.7		2-3									
C40500		94-96	0.7-1.3	0.05	Rem.	0.05								
C40810		94.5-96.5	1.8-2.2	0.05	Rem.	0.08-0.12	0.11-0.2	0.028 -0.4						
C40850		94.5-96.5	2.6-4	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.2						
C40860		94-96	1.7-2.3	0.05	Rem.	0.01-0.05	0.05-0.2	0.02-0.04						
C41000		91-93	2-2.8	0.05	Rem.	0.05								
C41100		89-92	0.3-0.7	0.1	Rem.	0.05								
C41120		89-92	0.3-0.7	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.35						

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Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
C41300		89-93	0.7-1.3	0.1	Rem.	0.05								
C41500		89-93	1.5-2.2	0.1	Rem.	0.05								
C42000		88-91	1.5-2		Rem.			0.25						
C42200		86-89	0.8-1.4	0.05	Rem.	0.05		0.35						
C42220		88-91	0.7-1.4	0.05	Rem.	0.05-0.2	0.05-0.2	0.02-0.05						
C42500		87-90	1.5-3	0.05	Rem.	0.05		0.35						
C42520		88-91	1.5-3	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.2						
C42600		87-90	2.5-4	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.2						
C43000		84-87	1.7-2.7	0.1	Rem.	0.05								
C43400		84-87	0.4-1	0.05	Rem.	0.05								
043500		79-83	0.6-1.2	0.1	Rem.	0.05								
C43600		80-83	0.2-0.5	0.05	Rem.	0.05								
C44250		73-76	0.5-1.5	0.07	Rem.	0.2	0.2	0.1						
C44300		70-73	0.8-1.2	0.07	Rem.	0.06								
C44400		70-73	0.8-1.2	0.07	Rem.	0.06						0.02-0.1		
C44500		70-73	0.8-1.2	0.07	Rem.	0.06		0.02-0.1						
C46200		62-65	0.5-1	0.2	Rem.	0.1								
C46400		59-62	0.5-1	0.2	Rem.	0.1								
C46500		59-62	0.5-1	0.2	Rem.	0.1								
C47000		57-61	0.25-1	0.05	Rem.				0.01					
C47940		63-66	1.2-2	1-2	Rem.	0.1-1	0.1-0.5							
C48200		59-62	0.5-1	0.4-1	Rem.	0.1								
C48500		59-62	0.5-1	1.3 - 2.2	Rem.	0.1								
C48600		59-62	0.3-1.5	1- 2.5	Rem.									
C66200		86.6-91	0.2-0.7	0.05	Rem.	0.05	0.30-1	0.05-0.2						
C66300		84.5-87.5	1.5-3	0.05	Rem.	1.4-2.4		0.35						
C66400		Rem.	0.05	0.015	11-12	1.3-1.7								
C66410		Rem.	0.05	0.015	11-12	1.8-2.3								
C66420		Rem.			12.7-17	0.5-1.5								
C66430		Rem.	0.6-0.9	0.05	13-15	0.6-0.9		0.1						
C67500		57-60	0.5-1.5	0.2	Rem.	0.8-2			0.25	0.05-0.5				

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Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
C67600		57-60	0.5-1.5	0.5-1	Rem.	0.4-1.3				0.05-0.5				
C68000		56-60	0.75-1.1	0.05	Rem.	0.25-1.25	0.2-0.8		0.01	0.01-0.5	0.04-0.15			
C68100		56-60	0.75-1.1	0.05	Rem.	0.25-1.2			0.01	0.01-0.5	0.04-0.15			
C68700		76-79		0.07	Rem.	0.06			1.8-2.5					
C68800		Rem.		0.05	21.3-24.1	0.2			3-3.8					
C83400		88-92	0.2	0.5	8-12	0.25	1	0.03	0.005		0.005	0.25	0.08	
C85200		70-74	0.7-2	1.5-3.58	20-27	0.6	1	0.02	0.005		0.05	0.2	0.05	
C85400		65-70	0.5-1.5	1.5-3.8	24-32	0.7	1		0.35		0.05			
C85500		59-63	0.2	0.2	Rem.	0.2	0.2			0.2				
C85700		58-64	0.5-1.5	0.8-1.5	32-40	0.7	1		0.8		0.05			
C85710		58-63	1	1-2.5	32-39	0.8	1		0.2-0.8	0.5	0.05			
C85800		57Min	1.5	1.5	31-41	0.5	0.5	0.01	0.55	0.25	0.25	0.05	0.05	
C89540		58-64	1.2	0.1	32-38	0.5	1		0.1-0.6					
C89550		58-64	1.2	0.1	32-38	0.5	1	0.01	0.1-0.6		0.25	0.05	0.05	

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