

# Cutech Alloys Private Limited

## GERMANY - DIN

Aluminium Bronze														
Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuAl10Fe1	(CW305G)	Rem	0.1	0.02	0.5	0.5-1.5	1		9-10	0.5	0.2			0.2
CuAl0Fe3Mn2	(CW306G)	Rem	0.1	0.05	0.5	2-4	1		9-11	1.5-3.5	0.2			0.2
CuAl10Ni5Fe4	(CW307G)	Rem	0.1	0.05	0.4	3-5	4-6		8.5-11	1	0.2			0.2
CuAl10Fe5Ni5		76-82.5	0.1	0.03	0.4	4-5.3	4-5.5		8.8-10	2.5	0.1			
CuAl11Fe6Ni6	(CW308G)	Rem	0.1	0.05	0.5	5-7	5-7		10.5-12.5	1.5	0.2			0.2
CuAl11Ni6Fe5		Rem		0.15	0.5	4.8-7.3	5-7.5		10.5-12.5	1.5	0.2			0.3
CuAl5		92.5-96	0.3	0.02	0.5	0.4	0.8		4-6	0.3	0.2			0.3
CuAl5As	(CW300G)	Rem	0.05	0.02	0.3	0.2	0.2		4-6.5	0.2				0.3
CuAl6Si2Fe	(CW301G)	Rem	0.1	0.05	0.4	0.5-0.7	0.1		6-6.4	0.1	2-2.4			0.2
CuAl7Si2	(CW302G)	Rem	0.2	0.05	0.5	0.3	0.2		6.3-7.6	0.2	1.5-2.2			0.2
CuAl8		Rem		0.02	0.5	0.5	0.8		7-9	0.8	0.2			0.3
CuAl8Fe		Rem	0.2	0.15	0.5	1.5-3.5	1		6.5-9	1	0.2			0.3
CuAl8Fe3	(CW303G)	Rem	0.1	0.05	0.5	1.5-3.5	1		6.5-8.5	1	0.2			0.2
CuAl9Fe3Mn2		Rem		0.05	0.5	2-4	1		9-11	1.5-3.5	0.2	-		0.3
CuAl9Mn		Rem		0.15	0.5	1.5	0.8		8-10	1.5-3	0.2			0.3
CuAl9Ni3Fe2	(CW304G)	Rem	0.1	0.05	0.2	1-3	2-4		8-9.5	2.5	0.1			0.3
G-CuAl10Fe		83-89	0.2	0.1	0.4	2-3.8	2.7		8.7-10.7	0.8	0.1			1
G-CuAl10Ni		76-80.5	0.1	0.03	0.2	3.5-5.3	4.5-6.3		9-10.6	2.3	0.07			0.8
G-CuAl11Ni		72-77	0.1	0.03	0.2	4.3-5.8	5.3-6.8		9.3-11.3	2.3	0.07			0.8
G-CuAl8Mn		82-84.5	0.1	0.05	0.15	0.6	1.2-1.8		7.3-8.8	5.3-6.5	0.05			0.8
G-CuAl9Ni		82-86.5	0.2	0.1	0.2	1-2.8	1.5-3.8		8.7-9.8	2.3	0.07			0.8

Recycled To PERFECTION

# Cutech Alloys Private Limited

Tin Bronze														
Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
GbCuSn10		88.5-90.5	9.3-11	0.8	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04	
CuSn4	(CW450K)	Rem	3.5-4.5	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn5	(CW451K)	Rem	4.5-5.5	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn5Pb1	(CW458K)	Rem	3.5-5.5	0.5-1.5	0.3	0.1	0.2	0.01-0.4						0.2
CuSn6		86-89.5	5.7-6.5	1.2-2	3.2-5	0.25		0.03	0.01		0.01		0.08	
CuSn6	(CW452K)	Rem	5.5-7	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn8	(CW453K)	Rem	7.5-8.5	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn8P	(CW459K)	Rem	7.5-8.5	0.05	0.3	0.1	0.3	0.2-0.4						0.2
CuSn8PbP	(CW460K)	Rem	7.5-9	0.1-0.5	0.3	0.1	0.3	0.2-0.4						0.2
CuSnPb2P	(CW455K)	Rem	3.5-4.5	1.5-2.5	0.3	0.1	0.2	0.2-0.4						0.2
GbCuSn12		86-88	11.3-13	0.8	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04	
GbCuSn12-B		Rem	11.8-13	0.8-1		0.15	1-1.5	0.06	0.01	0.1	0.01	0.15	0.03	
GbCuSn12Ni		84-87	11.3-13	0.15	0.3	0.15	1.5-2.4	0.05	0.01	0.1	0.01	0.05	0.04	
G-CuSn10Zn		86-88.5	9.2-11	1.3	1-3	0.2	1.8	0.03	0.01	0.1		0.25	0.06	
G-CuSn12Pb		84.3-87.3	11.3-13	1.2-2	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04	
G-SnBz10		89-91	9-11											
G-SnBz12		87-89	11-13											
G-SnBz14		85-87	13-15											
G-SnBz20		78-80	20-22											
RG-10		85-87	9-11	1.5	1.75-2.75	0.15	1		0.01		0.02	0.2		

Silicon Brass														
Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuZn31Si1		66-70		0.8	Rem.	0.4	0.5				0.7-1.3			0.5
CuZn31Si1	(CW708R)	66-70		0.8	Rem.	0.4	0.5				0.7-1.3			0.5
CuZn37Mn3Al2PbSi	(CW713R)	57-59	0.4	0.2-0.8	Rem.	1	1		1.3-2.3	1.5-3	0.3-1.3			0.3
CuZn39Mn1AlPbSi	(CW718R)	57-59	0.5	0.2-0.8	Rem.	0.5	0.5		0.3-1.3	0.8-1.8	0.2-0.8			0.3
CuZn40Al2		56.5-59	0.5	0.8	Rem.	1	2		1.3-2.3	1.4-2.6	0.3-1			0.5
G-CuZn15Si14		78-83			Rem.	0.6	1				3.8-5			1.2

# Cutech Alloys Private Limited

Gun Metal														
Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
G-CuSn2ZnPb		80-85	1.5-3	4-6	7-9	0.3	1.5-2.5	0.03	0.01	0.1	0.01	0.25	0.06	
G-CuSn5ZnPb		83.5-86	4.3-6	4-6	4.5-6.5	0.2	2.3	0.03	0.01	0.1	0.01	0.25	0.06	
G-CuSn6ZnPb		83.5-87	5.8-7	2.5-4	1.5-3	0.2	1.5-2.5	0.03	0.01	0.1	0.01	0.3	0.06	
G-CuSn7Zn5Pb		81-84.5	6.3-8	5.3-7	3.3-5	0.2	1.8	0.03	0.01	0.1	0.01	0.25	0.06	
RG-2		83	2	8	5									
RG-4		92-94	3-5	1-2	2									
RG-5		84-86	4-6	4-6	4-6	0.2	2	0.03	0.01	0.1	0.01	0.25	0.06	
RG-5 (Low Lead)		Rem	3.8-4.5	2.5-3	5.5-6.5	0.3	0.4-0.6	0.03	0.01	0.1	0.01	0.1	0.04	
RG-6		85	6	2	3		1							
RG-7		83-85	6-8	3-5	3-5									
RG-7B		Rem	6.8-8	5.3-7	3.3-5	0.2	1-1.5	0.03	0.01	0.1	0.01	0.25	0.03	
RG-A		81-87	5-8	4-6	7									

Leaded Tin Bronze														
Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	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										

Recycled To Perfection

# Cutech Alloys Private Limited

Brass														
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
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

# Cutech Alloys Private Limited

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
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
CuZn42PbAl	(CW621N)	57-59	0.3	0.2-0.8	Rem.	0.3	0.3		0.05-0.50					0.2
CuZn43Pb2	(CW623N)	55-57	0.3	1.6-3	Rem.	0.3	0.3		0.05					0.2
CuZn43Pb2Al	(CW624N)	55-57	0.3	1.6-3	Rem.	0.3	0.3		0.05-0.50					0.2
CuZn43PbAl	(CW622N)	55-57	0.3	0.8-1.6	Rem.	0.3	0.3		0.05-0.5 •					0.2
CuZn5	(CW500L)	94-96	0.1	0.05	Rem,	0.05	0.3		0.02					0.1
GB-CuZn33Pb		62.5-66	1.4	1.3-2.8	Rem.	0.7	0.8	0.02	0.03	0.1	0.03	0.05		1.8
GB-CuZn37A11		60-63	0.4	0.4	Rem.	0.4	1.8	0.02	0.6-1.8	0.4	0.5	0.05		1.3
GB-CuZn37Pb		59-62	0.6	0.7-2.2	Rem.	0.4	0.8	0.02	0.4-0.8	0.1	0.03	0.05		1
GB-CuZn3BAI		59-62	0.08	0.04	Rem.	0.4	0.8	0.02	0.4-0.8	0.4	0.1	0.03		1
GB-CuZn39Pb		58-63	0.9	1.3-2.5	Rem.	0.7	0.8	0.02	0.3-0.7	0.1	0.05	0.05		1.8
GB-CuZn40Fe		56-61	0.8	0.8	Rem,	0.2-1	1.8	0.02	0.03	0.3	0.03	0.05		1
G-CuZn37A11		60-64			Rem.		2		0.3-1.8					1.5
G-CuZn38Al		59-64			Rem.		1		01-0.8					1.2

Cutech  
Recycled To Perfection

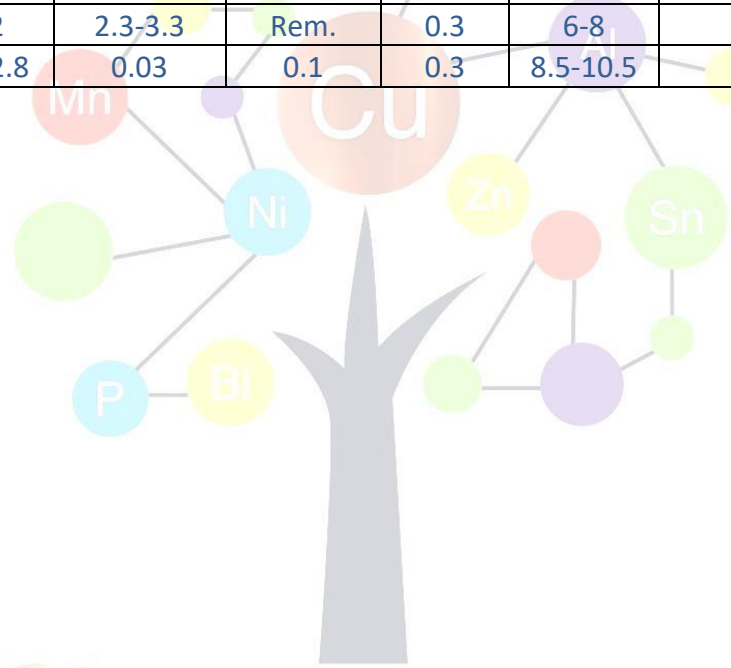
# Cutech Alloys Private Limited

High Tensile Brass														
Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
G-CuZn34Al2		55-66			Rem.	0.5-15	3		1-3	0.3-4				0.5
G-CuZn35A11		56-65			Rem.	0.5-2	2		0.5-2	0.3-3				1.5
CuZn23A16		63-65.5		1	Rem.	2-3.5	0.5		5-7	3.5-5				0.2
CuZn23A18Mn4Fe3Pb	(CW704R)	63-65	0.2	0.2-0.8	Rem.	2-3.5	0.5		5-6	3.5-5	0.2			0.2
Can25AlFe2Mn2Pb	(CW705R)	65-68	0.2	0.2-0.8	Rem.	0.5-3	1		4-5	0.5-3				0.3
CuZn35Ni2		58-61	0.5	0.8	Rem.	0.5	2-3		0.3-1.5	1.5-2.5	0.1			0.5
CuZn35Ni3Mn2AlPb	(CW710R)	58-60	0.5	0.2-0.8	Rem.	0.5	2-3		0.3-1.3	1.5-2.5	0.1			0.3
CuZn38Al		59-61.5	0.3	1	Rem.	1	0.6		0.3-1.3	0.6-1.6	0.5			0.5
CuZn38Mn1Al	(CW716R)	59-61.5	0.3	1	Rem.	1	0.6		0.3-1.3	0.6-1.8	0.5			0.3
CuZn40Al1		57.5-60	0.4	0.8	Rem.	1	1		0.4-1.3	0.8-1.8	0.7			0.5
CuZn40Mn1Pb1	(CW720R)	57-59	0.3	1-2	Rem.	0.3	0.6		0.2	0.5-1.5	0.1			0.3
CuZn40Mn1Pb1AlFeSn	(CW721R)	57-59	0.2-1	0.8-1.6	Rem.	0.2-1.2	0.3		0.3-1.3	0.8-1.8				0.3
CuZn40Mn1Pb1FeSn	(CW722R)	56.5-58.5	0.2-1	0.8-1.6	Rem.	0.2-1.2	0.3		0.1	0.8-1.8				0.3
CuZn40Mn2		57-59	0.5		Rem.	1.5	1		0.1	1-2.5	0.1			0.5
CuZn40Mn2Fe1	(CW723R)	56.5-58.5	0.3	0.5	Rem.	0.5-1.5	0.6		0.1	1-2	0.1			0.4
G-CuZn40Fe		56-62	1		Rem.	0.2-1.2	2			2.5				1.2

Cu Ni and Zinc Cu Ni														
Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuNi44Mn1		Rem.		0.01		0.2	43-45			0.5-2			0.02	0.1
CuNi10Fe1Mn	(CW352H)	Rem.	0.03	0.02	0.5	1-2	9-11	0.02		0.5-1			0.05	0.2
CuNi10Zn27	(CW401J)	61-64		0.05	Rem.	0.3	9-11.			0.5				0.2
CuNi10Zn42Pb2	(CW402J)	45-48	0.2	1-2.5	Rem.	0.3	9-11			0.5				0.2
CuNi12Zn24	(CW403J)	63-66	0.03	0.03	Rem.	0.3	11-13			0.5				0.2
CuNi12Zn25Pb1	(CW404J)	60-63	0.2	0.5-1.5	Rem.	0.3	11-13			0.5				0.2
CuNi12Zn29	(CW405J)	57-60	0.03	0.03	Rem.	0.3	11-13			0.5				0.2
CuNi12Zn30Pb1	(CW406J)	56-58	0.2	0.5-1.5	Rem.	0.3	11-13			0.5				0.2
CuNi12Zn38Mn5Pb2	(CW407J)	42-45	0.2	1-2.5	Rem.	0.3	11-13			4.5-6				0.2
CuNi18Zn19Pb1	(CW408J)	59.5-62.5	0.2	0.5-1.5	Rem.	0.3	17-19			0.7				0.2

# Cutech Alloys Private Limited

Copper Alloys	Standard	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
CuNi18Zn20	(CW409J)	60-63	0.03	0.03	Rem.	0.3	17-19			0.5				0.2
CuNi18Zn27	(CW410J)	53-56	0.03	0.03	Rem.	0.3	17-19			0.5				0.2
CuNi25	(CW350H)	Rem.	0.03	0.02	0.5	0.3	24-26			0.5			0.05	0.1
CuNi30Fe2Mn2	(CW353H)	Rem.	0.05	0.02	0.5	1.5-2.5	29-32	0.02		1.5-2.5			0.05	0.2
CuNi30Mn1Fe	(CW354H)	Rem.	0.05	0.02	0.5	0.4-1	30-32	0.02		0.5-1.5			0.05	0.2
CuNi7Zn39Pb3Mn2	(CW400J)	47-50	0.2	2.3-3.3	Rem.	0.3	6-8			1.5-3				0.2
CuNi9Sn2	(CW351H)	Rem.	1.8-2.8	0.03	0.1	0.3	8.5-10.5			0.3				0.1



# Cutech

## RECYCLED TO PERFECTION