

High Tensile Brass , Silicon Brass

Indian Standard (IS)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	Bi	Cr	Imp
HT Brass	HTB-1	55 Min	1	0.5	Rem.	0.7-2	-	-	0.5-2.5	3	0.1	-	-	-	0.2
	HTb-2	55 Min	0.2	0.2	Rem.	1.5-3.25	-	-	3-6	4	0.1	-	-	-	0.2
Silicon Brass	Silicon Brass(Gr-1)	79 Min	-	0.5	12.5-16	0.3	-	-	0.5	-	3.2-5	-	-	-	0.5
	Silicon Brass(Gr-2)	88 Min	-	0.5	4.5-7	0.3	-	-	-	-	3.7-5.5	-	-	-	0.5
	Silicon Brass(Gr-3)	80-83	-	0.4	Rem.	0.3	-	-	0.5	-	4.1-4.7	-	-	-	0.5

British Standard (BS)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Imp
HT Brass	HTB-1	55 Min	1	0.05	Rem.	0.7-2	1	-	0.5-2.5	0.1-3	0.1	-	-	-	0.2
	HTB-3	55 Min	0.2	0.2	Rem.	1.5-3.25	1	-	3-6	1.5-4	0.1	-	-	-	0.2
Cu Mn Al	CMA-1	Rem.	1	0.05	0.5	2-4	1.5-4.5	0.05	7.5-8.5	11-15	0.15	-	-	-	0.3
	CMA-2	Rem.	1	0.05	0.5	2-4	1.5-4.5	0.05	8.5-9	11-15	0.15	-	-	-	0.3

Japanese Industrial Standard (JIS)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	Bi	Cr	Imp
HT Brass	CAA301(HBsC2)	55.0-60.0	1	0.4	Rem.	0.5-1.5	1	-	0.5-1.5	0.1-1.5	0.1	-	-	-	-
	CAC302(HBsC2)	55.0-60.0	0.1	0.4	Rem.	0.5-2.0	1	-	0.5-2.0	0.1-3.5	0.1	-	-	-	-
	CAC303(HBsC3)	60.0-65.0	0.5	0.2	Rem.	2.0-4.0	0.5	-	3.0-5.0	2.5-5.0	0.1	-	-	-	-
	CAC304(HBsC4)	60.0-65.0	0.2	0.2	Rem.	2.0-4.0	0.5	-	5.0-7.5	2.5-5.0	0.1	-	-	-	-

European Standard (EN)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Cr
HT Brass	CuZn(Cb762S)	60-66	0.2	0.2	Rem.	1.5-3.5	2.7	0.02	4-7	3-5	0.08	0.03	-	-	-
	CuZn(CB763S)	59-67	1	1	Rem.	0.5-2	2.5	-	1-2.5	1-3.5	1	0.08	-	-	-
	CuZn(CB764S)	55-65	0.3	0.2	Rem.	0.08-2	2.7	0.02	1.5-3	1-3.5	0.08	0.05	-	-	-
	CuZn(CB765S)	56-64	0.8	0.5	Rem.	0.5-1.80	6	0.02	0.7-2.2	0.5-2.5	0.1	0.08	-	-	-

German Standard (DIN)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
HT Brass	CUZn23Al6	63-65.5	-	1	Rem.	2-3.5	0.5	-	5-7	3.5-5	-	-	-	-	0.2
	CuZn(CW704R)	63-65	0.2	0.2-0.8	Rem.	2-3.5	0.5	-	5-6	3.5-5	0.2	-	-	-	0.2
	CuZn(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
	CuZn(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
	CuZn38Al1	59-61.5	0.3	1	Rem.	1	0.6	-	0.3-1.3	0.6-1.6	0.5	-	-	-	0.5
	CuZn(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

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German Standard (DIN)

High Tensile Brass	Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
CuZn(CW720R)	57-59	0.3	1-2	Rem.	0.3	0.6	-	0.2	0.5-1.5	0.1	-	-	-	0.3
CuZn(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
CuZn(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
CuZn(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
Silicon Brass	CuZn31Si1	66-70	-	0.8	Rem.	0.4	0.5	-	-	-	0.7-1.3	-	-	0.5
	CuZn(CW708R)	66-70	-	0.8	Rem.	0.4	0.5	-	-	-	0.7-1.3	-	-	0.5
	CuZn(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
	CuZn(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-CuZn15Si4	78-83	-	-	Rem.	0.6	1	-	-	-	3.8-5	-	-	1.2
	G-CuZn25Si	60-67	-	-	Rem.	1.5-4	3	-	3-7	2.5-5	-	-	-	0.5
CuNi & Ni Sliver	CuNi(CW352H)	Rem.	0.03	0.02	0.5	1-2	9-11	0.02	-	0.5-1	-	-	0.05	0.2
	CuNi(CW401J)	61-64	-	0.05	Rem.	0.3	9-11	-	-	0.5	-	-	-	0.2
	CuNi(CW402J)	45-48	0.2	1-2.5	Rem.	0.3	9-11	-	-	0.5	-	-	-	0.2
	CuNi(CW403J)	63-66	0.03	0.03	Rem.	0.3	11-13	-	-	0.5	-	-	-	0.2
	CuNi(CW404J)	60-63	0.2	0.5-1.5	Rem.	0.3	11-13	-	-	0.5	-	-	-	0.2
	CuNi(CW405J)	57-60	0.03	0.03	Rem.	0.3	11-13	-	-	0.5	-	-	-	0.2
	CuNi(CW406J)	56-58	0.2	0.5-1.5	Rem.	0.3	11-13	-	-	0.5	-	-	-	0.2
	CuNi(CW407J)	42-45	0.2	1-2.5	Rem.	0.3	11-13	-	-	4.5-6	-	-	-	0.2
	CuNi(CW408J)	59.5-62.5	0.2	0.5-1.5	Rem.	0.3	17-19	-	-	0.7	-	-	-	0.2
	CuNi(CW409J)	60-63	0.03	0.03	Rem.	0.03	17-19	-	-	0.5	-	-	-	0.2
	CuNi(CW410J)	53-56	0.03	0.03	Rem.	0.3	17-19	-	-	0.5	-	-	-	0.2
	CuNi(CW350H)	Rem.	0.03	0.02	0.5	0.3	24-26	-	-	0.5	-	-	0.05	0.1
	CuNi(CW353H)	Rem.	0.05	0.02	0.5	1.5-2.5	29-32	0.02	-	1.5-2.5	-	-	0.05	0.2
	CuNi(CW354H)	Rem.	0.05	0.02	0.5	0.4-1	30-32	0.02	-	0.5-1.5	-	-	0.05	0.2
	CuNi(CW400J)	47-50	0.2	2.3-3.3	Rem.	0.3	6-8	-	-	1.5-3	-	-	-	0.2
	CuNi(CW351H)	Rem.	1.8-2.8	0.03	0.1	0.3	8.5-10.5	-	-	0.3	-	-	-	0.1

US Standard (ASTM)

High Tensile Brass	Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Imp
HT Brass	C66700	68.5-71.5	-	0.07	Rem.	0.1	-	-	0.8-1.5	-	-	-	-	-
	C66800	60-63	0.3	0.5	Rem.	0.35	0.25	0.25	2-3.5	0.5-1.5	-	-	-	-
	C66900	62.5-64.5	-	0.05	Rem.	0.25	-	-	11.5-12.5	-	-	-	-	-
	C66950	Rem.	-	0.01	14-15	0.5	-	1-1.5	14-15	-	-	-	-	-
	C67000	63-68	0.5	0.2	Rem.	2-4	-	3-6	2.5-5	-	-	-	-	-
	C67300	58-63	0.3	0.4-3	Rem.	0.5	0.25	0.25	2-3.5	0.5-1.5	-	-	-	-
	C67400	57-60	0.3	0.5	Rem.	0.35	0.25	0.5-2	2-3.5	0.5-1.5	-	-	-	-
	C67420	57-58.5	0.35	0.25-0.8	Rem.	0.15-0.55	0.25	-	1-2	1.5-2.5	0.25-0.7	-	-	-

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US Standard (ASTM)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Imp	
	C86100	66-68	0.2	0.2	Rem.	2-4	-	-	4.5-5.5	2.5-5	-	-	-	-	-	
	C86200	60-66	0.2	0.2	22-28	2-4	1	-	3-4.9	2.5-5	-	-	-	-	-	
	C86300	60-66	0.2	0.2	22-28	2-4	1	-	5-7.5	2.5-5	-	-	-	-	-	
	C86400	56-62	0.5-1.5	0.5-1.5	34-42	0.4-2	1	-	0.5-1.5	0.1-1.5	-	-	-	-	-	
	C86500	55-60	1	0.4	36-42	0.4-2	1	-	0.5-1.5	0.1-1.5	-	-	-	-	-	
	C86550	59 Min	1	0.5	Rem.	0.7-2	1	-	0.5-2.5	0.1-3	0.1	-	-	-	-	
	C86700	55-60	1.5	0.5-1.5	30-38	1-3	1	-	1-3	0.1-3.5	-	-	-	-	-	
	C86800	53.5-57	1	0.2	Rem.	1-2.5	2.5-4	-	2	2.5-4	-	-	-	-	-	
	C99700	54 Min	1	0.2	19-25	1	4-6	-	0.5-3	11-15	-	-	-	-	-	
	C99750	55-61	-	0.5-2.5	17-23	1	5	-	0.25-3	17-23	-	-	-	-	-	
Silicon Brass	C23030	83.5-85.5	-	0.05	Rem.	0.05	-	-	-	-	0.2-0.4	-	-	-	-	
	C69050	70-75	-	-	Rem.	-	0.5-1.5	-	3.4	-	0.1-0.6	-	-	-	-	
	C69100	81-84	0.1	0.05	Rem.	0.25	0.8-1.4	-	0.7-1.2	0.1	0.8-1.3	-	-	-	-	
	C69300	73-77	0.2	0.1	Rem.	0.1	0.1	0.04-0.15	-	0.1	2.7-3.4	-	-	-	-	
	C69400	80-83	-	0.3	Rem.	0.2	-	-	-	-	3.5-4.5	-	-	-	-	
	C69430	80-83	-	0.3	Rem.	0.2	-	-	-	-	3.5-4.5	-	-	-	-	
	C69700	75-80	-	0.5-1.5	Rem.	0.2	-	-	-	0.4	2.5-3.5	-	-	-	-	
	C69710	75-80	-	0.5-1.5	Rem.	0.2	-	-	-	0.4	2.5-3.5	-	-	-	-	
	C69750	78-83	0.05	0.8-1.3	Rem.	0.05	0.01	0.02	-	0.05	1.9-2.22	-	-	-	-	
	C87400	79 Min*	-	1	12-16	-	-	-	-	0.8	-	2.5-4	-	-	-	-
	C87500	79 Min*	-	0.5	12-16	-	-	-	-	0.5	-	3-5	-	-	-	-
	C87600	88 Min*	-	0.5	4-7	0.2	-	-	-	-	0.25	3.5-5.5	-	-	-	-
	C87610	90 Min*	-	0.2	3-5	0.2	-	-	-	-	0.25	3-5	-	-	-	-
	C87800	80Min(*H)	0.25	0.15	12-16	0.15	0.2	0.01	0.15	0.15	3.8-4.2	0.05	0.05	-	-	-
SiBz & CuNi	C63400	Rem.	0.2	0.05	0.5	0.15	0.15	-	2-6-3.2	-	0.25-0.4	-	-	-	-	
	C63600	Rem.	0.2	0.05	0.5	0.15	0.15	-	3-4	-	0.7-1.3	-	-	-	-	
	C63800	Rem.	-	0.05	0.8	0.2	0.2	-	2.5-3.1	0.1	1.5-2.1	-	-	-	-	
	C64200	Rem.	0.2	0.05	0.5	0.3	0.25	-	6.3-7.6	0.1	1.5-2.2	-	-	-	-	
	C64210	Rem.	0.2	0.05	0.5	0.3	0.25	-	6.3-7	0.1	1.5-2	-	-	-	-	
	C87300	94 Min	-	0.2	0.25	0.2	-	-	-	0.8-1.5	3.5-4.5	-	-	-	-	
	C95600	88 Min	-	-	-	-	0.25	-	6-8	-	1.8-3.2	-	-	-	-	
	C954700	85-90	4.5-6	0.1(*D)	1-2.5	0.25	4.5-6	0.05	0.005	0.2	0.005	0.15	0.05	-	-	
	C94800	84-89	4.5-6	0.3-1	1-2.5	0.3	4.5-6	0.05	0.005	0.2	0.005	0.15	0.05	-	-	
	C94900	79-81	4-6	4-6	4-6	0.25	4-6	0.05	0.005	0.1	0.005	0.25	0.08	-	-	
C96200	Rem.	-	0.01	-	1-1.8	9-11	0.02	-	1.5	0.5	-	-	-	-		

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US Standard (ASTM)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Imp
	C96300	Rem.	-	0.01	-	0.5-1.5	18-22	0.02	-	0.25-1.5	0.5	-	-	-	-
	C96400	Rem.	-	0.01	-	0.25-1.5	28-32	0.02	-	1.5	0.5	-	-	-	-
	C96600	Rem.	-	0.01	-	0.8-1.1	29-33	-	-	1	0.15	-	-	-	-
	C96700	Rem.	-	0.01	-	0.4-1	29-33	-	-	0.4-1	0.15	-	-	-	-
	C96800	Rem.	7.5-8.5	0.005	1	0.5	9.5-10.5	-	-	0.05-0.3	0.05	-	-	-	-
	C96900	Rem.	7.5-8.5	0.02	0.5	0.5	14.5-15.5	-	-	0.05-0.3	-	-	-	-	-
	C96950	Rem.	5.8-8.5	0.02	-	0.05	11-15.5	-	-	0.05-0.4	0.3	-	-	-	-
	C96970	Rem.	5.5-6.5	0.02	0.5	0.5	8.5-9.5	-	-	0.3	-	-	-	-	-
	C97300	53-58	1.5-3	8-11	17-25	1	11-14	0.05	0.005	0.5	0.5	0.35	0.08	-	-
	C97600	63-66	3.5-4.5	3.5-5	3-9	1	19.5-21	0.05	0.005	1	0.05	0.25	0.08	-	-
	C97800	64-67	4.5-5.5	1-2	1-4	1	24-26	0.05	0.005	1	0.05	0.2	0.08	-	-
	C99400	Rem.	-	0.25	5	5.5	5.5	-	2	-	2	-	-	-	-
	C99500	Rem.	-	0.25	2	5.5	5.5	-	2	-	2	-	-	-	-

Italian Standard (UNI)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
HT Brass	Standard														
G-CuZn38Al1Fe1Mn1	UNI6138-68	58-61	0.3	0.2	Rem.	0.5-1.5	2.5	0.05	0.5-1.5	0.5-2.5	0.1	0.05	0.05	-	-
G-CuZn39Al2Fe1Mn2	UNI138-68A	54-58	0.1	0.05	Rem.	0.5-2	0.5	0.05	1-3	1-4.5	0.1	0.05	0.05	-	-
G-CuZn39Al2Mn2Fe1	UNI6239	54-58	0.1	0.05	Rem.	0.5-2	0.5	0.05	1-3	1-4.5	0.1	0.05	-	-	-
Silicon Brass															
G-CuZn36Si1Pb1	UNI5038	61-63	0.5	0.5-1.2	Rem.	0.3	0.5	0.05	0.25	0.15	0.8-1.2	0.1	-	-	-
G-CuZn39Si1	UNI5037	59-61	0.2	0.15	Rem.	0.15	0.2	0.05	0.2	0.15	0.8-1.1	0.05	-	-	-

France Standard (NFA53)

High Tensile Brass		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
HT Brass	CuZn19Al6Y20	60-66	0.1	0.1	18-25	2-3	1	-	5-7.5	2.5-4	-	-	-	-	-
	CuZn23Al4Y20	60-66	0.2	0.2	20-27	1.5-3	2.5	-	3-5	2.5-4.5	-	-	-	-	-
	CuZn30AlFeMn	59-67	0.3	1.5	Rem.	0.5-2	2.5	-	1-2.5	1-3.5	1	-	-	-	-

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