

Indian standard

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	Imp.
High Tensile Brass IS:304-1981												
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

**British
Standard
(BS)**

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Imp
High Tensile Brass														
HTB 1	55 Min	1	0.5	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

European Standard (EN)															
Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	
High Tensile Brass															
CuZn25Al5Mn4Fe3 (CB762S)	60-66	0.2	0.2	Rem.	1.5-3.5	2.7	0.02	4-7	3-5	0.08	0.03	-	-	-	
CuZn32Al2Mn2Fe1 (CB763S)	59-67	1	1	Rem.	0.5-2	2.5	-	1-2.5	1-3.5	1	0.08	-	-	-	
CuZn34Mn3Al2Fe1 (CB764S)	55-65	0.3	0.2	Rem.	0.8-2	2.7	0.02	1.5-3	1-3.5	0.08	0.05	-	-	-	
CuZn35Mn2Al1Fe1 (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 din

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Imp.
High Tensile Brass													
CuZn23Al6	63-65.5		1	Rem.	2-3.5	0.5	-	5-7	3.5-5	-	-	-	0.2
CuZn23Al6Mn4Fe3Pb (CW704R)	63-65	0.2	0.2-0.8	Rem.	2-3.5	0.5	-	5-6	3.5-5	0.2	-	-	0.2
CuZn25Al5Fe2Mn2Pb (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
CuZn38Al1	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
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

ASTM:-

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
High Tensile 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	-	-	-
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	57 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	-	-	-	-