

Gun Metal

Indian Standard (IS)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	Bi	Cr	Imp
Gun Metal	Class 2	Rem	5-7	1-3	2-3	0.3	-	0.05	0.01	-	-	0.1	-	-	0.6
IS 318 -1981	LTB 1	Rem	6-8	2.5-3.5	1.5-3	0.3	2	-	0.01	-	0.01	0.3	-	-	0.7
	LTB 2	Rem	4-5	4-6	4-6	0.35	2	-	0.01	-	0.02	0.4	-	-	0.8
Leaded Bronze	LB Class -3	Rem	6-8	14-16	0.5	0.3	-	0.05	0.01	-	-	0.4	-	-	0.7
	LB Class -4	Rem	6-8	9-11	0.5	0.3	-	0.05	0.01	-	-	0.4	-	-	0.7
	LB Class -5	Rem	4-6	4-6	4-6	0.3	-	0.05	0.01	-	-	0.3	-	-	0.6
IS 318 -1981	LTB 3	Rem	6-8	9-11	0.75	0.35	2	-	0.01	-	0.02	0.5	-	-	0.8
	LTB 4	Rem	6-8	14-16	0.75	0.35	2	-	-	-	0.02	0.5	-	-	0.8
	LTB 5	Rem	9-11	8.5-11	1	0.35	2	-	0.01	-	0.02	0.5	-	-	0.8
	LTB 6	Rem	4-6	18-23	1	0.35	2	-	-	-	0.01	0.5	-	-	0.8

British Standard (BS)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Imp
Gun Metal	LG-1	Rem	2-3.5	06-Apr	7-9.5	0.5	2	0.03	0.01	-	0.02	0.25	0.08	0.1	1.0
	LG-2	Rem	4-6	4-6	4-6	0.5	2	-	0.01	-	0.02	-	-	0.05	0.8
	LG-4	Rem	6-8.05	2.5-3.5	1.5-3	0.2	2	-	0.01	-	0.01	0.25	-	0.05	0.7
Leaded Bronze	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

Japanese Industrial Standard (JIS)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	Bi	Cr	Imp
Gun Metal	CAC401(BC1)	79.0-83.0	2.0-4.0	3.0-7.0	8.0-12.0	0.35	0.8	0.3	0.005	-	0.005	0.2	-	-	-
	CAC406(BC6)	83.0-87.0	4.0-6.0	4.0-6.0	4.0-6.0	0.3	0.8	0.03	0.005	-	0.005	0.2	-	-	-
	CAC407(BC7)	86.0-90.0	5.0-7.0	1.0-3.0	3.0-5.0	0.2	0.8	0.03	0.005	-	0.005	0.2	-	-	-
	CAC408	84.0-88.0	4.0-6.0	2.0-4.0	5.0-7.0	0.3	0.8	0.03	0.005	-	0.005	0.2	-	-	-
Leaded Bronze	CAC602(LBC2)	82.0-86.0	9.0-11.0	4.0-6.0	1	0.2	1	0.05	0.005	-	0.005	0.3	-	-	-
	CAC603(LBC3)	77.0-81.0	9.0-11.0	9.0-11.0	1	0.2	1	0.05	0.005	-	0.005	0.05	-	-	-
	CAC604(LBC4)	74.0-78.0	7.0-9.0	14.0-16.0	1	0.2	1	0.05	0.005	-	0.005	0.05	-	-	-
	CAC605	70.0-76.0	6.0-8.0	16.0-22.0	1	0.2	1	0.05	0.005	-	0.005	0.05	-	-	-

European Standard (EN)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Cr
Gun Metal	CuSn5Zn5Pb5(CB491K)	83-86.5	4.2-6	4.2-5.8	4.5-6.5	0.25	2	0.03	0.01	-	0.01	0.25	0.08	-	-
	CuSn6Zn4PB2(CB498K)	86-89.5	5.7-6.5	1.2-2	3.2-5	0.25	1	0.03	0.01	-	0.01	0.25	0.08	-	-
	CuSn7Zn2Pb3(CB492K)	85-88.5	6.2-8.0	2.7-3.5	1.7-3.2	0.2	2	0.03	0.01	-	0.01	0.25	0.08	-	-
	CuSn7Zn4Pb7(CB493K)	81-84.5	6.2-8	5.2-8	2.3-5	0.2	2	0.03	0.01	-	0.01	0.3	0.08	-	-
Leaded Bronze	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	-	-

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European Standard (EN)

Gun Metal	Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Cr
CuSn11Pb2(CB482K)	83.2-86.5	10.7-12.5	0.7-2.05	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	1.2-6	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	-	-

German Standard (DIN)

Gun Metal	Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
Gun Metal	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-CuSn6ZnNi	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-CuSn7ZnPb	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-6	85	6	2	3	-	1	-	-	-	-	-	-	-
	RG-7	81-85	6-8	5-8	2-5	0.20	2.0	0.10	0.01	-	0.01	0.30	0.10	-
	RG-A	81-87	5-8	4-6	7	-	-	-	-	-	-	-	-	-
Leaded Bronze	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	-
	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	-
	G-CuPb20Sn	70-75	3.7-5.05	18.5-23	2	0.15	2.3	0.03	0.01	0.1	0.01	0.4	0.08	-
	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	-
	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	-	-	-	-	-	-	-	-	-	-

US Standard (ASTM)

Gun Metal	Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Imp
Gun Metal	C83300	92-94	1-2	1-2	2-6	-	-	-	-	-	-	-	-	-
	C83450	87-89	2.2-3	1.5-2.5	5.5-7.5	0.25	0.8-1.5	0.03	0.005	-	0.005	0.25	0.08	-
	C83500	86-88	3.5-5.5	3.5-5.5	1-2.5	0.25	0.5-1	0.03	0.005	-	0.005	0.25	0.08	-
	C83600	84-86	4.3-6	4-5.7	4.3-6	0.25	1	0.05	0.005	-	0.005	0.25	0.08	-
	C83800	82-83.5	3.5-4.2	5.8-6.8	5.5-8	0.25	1	0.03	0.005	-	0.005	0.25	0.008	-
	C83810	Rem	2-3.5	4-6	7.5-9.5	0.5	2	-	0.005	-	0.1	-	-	-
	C84200	78-82	4-6	2-3	10-16	0.4	0.8	0.05	0.005	-	0.005	0.25	0.08	-
	C84400	79-82	2.5-3.5	6-8	7-10	0.4	0.8	0.02	0.005	-	0.005	0.25	0.08	-
	C84410	Rem	3-4.5	7-9	7-11	-	1	-	0.01	-	0.2	-	-	0.05

US Standard (ASTM)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Bi	Imp
	C84500	77-79	2-4	6-7.5	10-14	0.4	1	0.02	0.005	-	0.005	0.25	0.08	-	-
	C84800	75-76.7	2-3	5.5-7	13-17	0.4	1	0.02	0.005	-	0.005	0.25	0.08	-	-
	C92210	86-89	4.5-5.5	1.7-2.5	3-4.5	0.25	0.7-1	0.03	0.005	-	0.005	0.2	0.05	-	-
	C92220	86-88	5-6	1.5-2.5	3-5.5	0.25	0.5-1	0.05	-	-	-	-	-	-	-
	C54400	Rem	3.5-4.5	3.5-4.5	1.5-4.5	0.1	-	0.01-0.5	-	-	-	-	-	-	-
Leaded Bronze	C92410	Rem	6-8	2.5-3.5	1.5-3	0.2	0.2	-	0.005	0.05	0.005	0.25	-	-	-
	C93400	82-85	7-9	7-9	0.8	0.2	1	0.5	0.005	-	0.005	0.5	0.08	-	-
	C93500	83-86	4.3-6	8-10	2	0.2	1	0.05	0.005	-	0.005	0.3	0.08	-	-
	C93600	79-83	6-8	11-13	1	0.2	1	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	0.008	-	-
	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	-	-
	C94310	Rem	1.5-3	27-34	0.5	0.5	0.25-1	0.05	-	-	-	0.5	-	-	-
	C94320	Rem	4-7	24-32	-	.35	-	-	-	-	-	-	-	-	-
	C94330	68.5-75.5	3-4	21-25	3	0.7	0.5	0.1	-	-	-	0.5	-	-	-
	C94400	Rem	7-9	9-12	0.8	0.15	1	0.5	0.005	-	0.005	0.8	0.08	-	-
	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	-	-	-	0.5	-	-	-
	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	37.5-42.5	0.1	0.35	-	0.02	-	-	-	-	-	-	-
	C98820	Rem	1-5	40-44	-	0.35	-	-	-	-	-	-	-	-	-
	C98840	Rem	1-5	44-58	-	0.35	-	-	-	-	-	-	-	-	-

Italian Standard (UNI)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
Gun Metal															
B Zn 7	UNI1698	83.85	5-7.5	4	Rem.	0.5	1	0.05	-	-	-	0.5	-	-	-
G-CuSn3Zn10Pb7	UNI7013	Rem	3-5	5-7.5	11-Sep	0.4	2	0.05	-	0.2	-	0.4	0.2	-	1.2
G-CuSn5Zn5Pb5	UNI7013	Rem	4-6	4-6	4-6	0.3	2	0.05	-	0.1	-	0.4	0.1	-	1
G-CuSn7ZnPb6	UNI7013	Rem	6-8	5-7	3-5	0.25	2	0.05	-	0.1	-	0.35	0.1	-	0.7
Leaded Bronze														-	

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Italian Standard (UNI)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
B Pb 4	UNI1698	85-87	9-11	2-6	1	0.1	0.2	-	-	0.5	-	0.1	-	-	-
BS Pb12	UNI1698	79-81	7-9	8-13	0.1	0.2	1	-	-	1	-	0.3	-	-	-
BS Pb30	UNI1698	64-68	2.5-3.5	28-32	0.1	0.2	1	-	-	0.05	-	0.2	-	-	-
BS Pb7	UNI1698	78-81	9-11	6-8	0.1	0.3	2.5-3.5	-	-	0.05	-	0.2	-	-	-
BS Pb8	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	-	0.5	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	-	0.5	0.2	-	1

France Standard (NFA53)

Gun Metal		Cu	Sn	Pb	Zn	Fe	Ni	p	Al	Mn	Si	Sb	S	Cr	Imp
Gun Metal	CuPb20Sn5	Rem	4-6	18-23	2	0.25	2.5	-	0.01	-	0.01	-	-	-	-
	CuSn10Pb10	Rem	9-11	8-11	2	0.25	2	0.3	0.01	-	0.01	-	-	-	1
	CuSn3Zn9Pb7	Rem	2-3.5	6-8	7-10	0.3	1.5	-	0.01	-	0.01	-	0.1	-	1
	CuSn5Pb5Zn5	Rem	4-6	4-6	4-6	0.3	1.5	-	0.01	-	0.01	-	0.1	-	1
	CuSn7Pb6Zn4	Rem	6-8	5-7	2-5	0.2	1.5	-	0.01	-	0.01	-	0.1	-	1
Leaded Bronze	CuZn33PbY20	65-70	0.8	1.8	Rem.	0.5	0.5	0.05	0.1	0.2	0.05	-	-	-	-
	CuZn40Y30	59-63	0.7	0.5-2	Rem.	0.5	0.8	-	0.2-0.8	0.5	0.05	-	-	-	-
	CuZn40Y40	59-63	0.7	0.5-2	Rem.	0.5	0.8	-	0.2	0.5	0.2	-	-	-	-