

ASTM			COMPOSICIÓN QUÍMICA																	PROPIEDADES MECÁNICAS			
COBRE, LATÓN Y BRONCE:			Cobre Cu%	Estaño Sn%	Dirigir Pb%	Zinc Zn%	Hierro Fe%	Antimonio Sb%	Níquel + Cobalto Ni%+Co%	Azufre S%	Fósforo P%	Aluminio Al%	Silicio Si%	Manganeso Mn%	Cromo Cr%	Arsénico As%	Carbón C%	Cobre %	Aleación% Total sin cobre	Resistencia a la tracción K.S.I.	Resistencia al rendimiento K.S.I.	Elong%	Dureza Brinell min.
Código ASTM	Grado	Tipo																					
	C81100	Copper	99.70															99.70	0.30	28	4	45	
	C83300	Copper-tin-zinc	93.00 to 94.00	1.50 to 2.00	1.50 to 2.00	4.00 to 6.00												91.50	8.50	37	15	34	
	C83400	Copper-tin-zinc	88.00 to 92.00	0.20	0.50	10.00 to 12.00												88.30	11.70	37	15	34	
B30	C83600	Leaded red brass	84.00 to 86.00	4.30 to 6.00	4.00 to 5.70	4.30 to 6.00	0.25	0.25	0.80	0.08	0.03	.005	.005				83.43	16.57	38	16.5	34		
B30	C83800	Leaded red brass	82.00 to 83.50	3.50 to 4.20	5.80 to 6.80	5.50 to 8.00	0.25	0.25	0.80	0.08	0.02	.005	.005				81.69	18.31	35	16	25		
B30	C84200	Leaded semi-red brass	78.00 to 82.00	4.30 to 6.00	2.00 to 2.80	10.00 to 16.00	0.35	0.25	0.80	0.08	0.02	.005	.005				77.94	22.06	24.6	9.8	27		
B30	C84400	Leaded semi-red brass	79.00 to 82.00	2.50 to 3.50	6.30 to 7.70	7.00 to 10.00	0.35	0.25	0.80	0.08	0.02	.005	.005				79.99	20.01	23.9	10.5	26		
B30	C84800	Leaded semi-red brass	75.00 to 76.70	2.30 to 3.00	5.50 to 6.70	13.00 to 16.00	0.35	0.25	0.80	0.08	0.02	.005	.005				75.24	24.76	34	14	27		
B30	C85200	Leaded yellow brass	70.00 to 73.00	0.80 to 1.70	1.50 to 3.50	21.00 to 27.00	0.50	0.20	0.80	0.05	0.01	.005	0.05				70.64	29.37	38	13	40		
B30	C85400	Leaded yellow brass	66.00 to 69.00	0.50 to 1.50	1.50 to 3.50	25.00 to 31.00	0.50		0.80			.005	0.05				67.15	32.86	34	12	35		
B30	C85700	Leaded yellow brass	58.00 to 63.00	0.50 to 1.50	0.80 to 1.50	33.00 to 40.00	0.50		0.80			0.80	0.05				59.20	40.80	52	18	50		
B30	C85800	Leaded yellow brass	57.00 Min.	1.50	1.50	31.00 to 41.00	0.50	0.05	0.50	0.05	0.01	0.50	0.25			0.05	58.84	41.16	38.5	21	15		
B30	C86200	High-strength yellow bronze	60.00 to 66.00	0.10	0.10	22.00 to 28.00	2.00 to 4.00		0.80			3.00 to 4.90		2.50 to 5.00				63.30	36.70	94	48	22	
B30	C86300	High-strength yellow bronze	60.00 to 66.00	0.10	0.10	22.00 to 28.00	2.00 to 4.00		0.80			5.00 to 7.50		2.50 to 5.00				61.00	39.00	110	60	12	223
B30	C86400	High-strength yellow bronze	56.00 to 62.00	0.50 to 1.00	0.50 to 1.30	34.00 to 42.00	0.40 to 2.00		0.80			0.50 to 1.50		0.10 to 1.00				56.80	43.20	69	26	23	
B30	C86500	High-strength yellow bronze	55.00 to 60.00	1.00	0.30	36.00 to 42.00	0.40 to 2.00		0.80			0.50 to 1.50		0.10 to 1.50				55.90	44.10	72	30	37	
B30	C86700	High-strength yellow bronze	55.00 to 60.00	1.50	0.50 to 1.50	30.00 to 38.00	1.00 to 3.00		0.80			1.00 to 3.00		1.00 to 3.50				56.45	43.55	59.8	29.5	20	
B30	C87400	Silicon brass & bronze	79.00 Min.		1.00	12.00 to 16.00						0.50	2.50 to 4.00				81.25	18.75	38.7	16.9	30		
B30	C87500	Silicon brass & bronze	79.00 Min.		0.09	12.00 to 16.00						0.50	3.00 to 5.00				81.41	18.59	67	32	20		
B30	C87600	Silicon brass & bronze	88.00 Min.		0.09	4.00 to 7.00	0.20						3.50 to 5.50	0.25			89.46	10.54	67	32	20		
B30	C87700	Silicon brass & bronze	87.50 Min.	2.00	0.09	7.00 to 9.00	0.50	0.1	0.25				2.50 to 3.50	0.80			85.11	14.89	47	24	10		
B30	C87800	Silicon brass & bronze	80.00 Min.	0.25	0.09	12.00 to 16.00	0.15	0.05	0.20	0.05	0.01	0.15	3.80 to 4.20	0.15		0.05	80.85	19.15	59.8	35.2	25		
B30	C90300	Tin bronze	86.00 to 89.00	7.80 to 9.00	0.25	3.50 to 5.00	0.15	0.20	0.80	0.05	0.03	.005	.005				85.86	14.14	48	21	36		
B30	C90500	Tin bronze	86.00 to 89.00	9.50 to 10.50	0.25	1.50 to 3.00	0.15	0.20	0.80	0.05	0.03	.005	.005				86.26	13.74	40	18	20		
B30	C90700	Tin bronze	88.00 to 90.00	10.30 to 12.00	0.50	0.50	0.15	0.20	0.50	0.05	0.30	.005	.005				86.64	13.36	48	21	36		
B30	C90800	Tin bronze	85.00 to 89.00	11.30 to 13.00	0.25	0.25	0.15	0.10	0.50	0.05	0.30	.005	.005				86.24	13.76	48	21	36		
B30	C91000	Tin bronze	84.00 to 86.00	14.30 to 16.00	0.20	1.50	0.10	0.10	0.80	0.05	0.03	.005	.005				82.06	17.94	48	21	36		
B30	C91100	Tin bronze	82.00 to 85.00	15.30 to 17.00	0.25	0.25	0.15	0.20	0.50	0.05	1.00	.005	.005				81.44	18.56	35	25	2	135	
B30	C91300	Tin bronze	79.00 to 82.00	18.00 to 20.00	0.25	0.25	0.25	0.20	0.50	0.05	1.00	.005	.005				78.49	21.51	35	30	0	170	
B30	C91700	Tin bronze	84.00 to 87.00	11.50 to 12.50	0.25	0.25	0.15	0.10	1.20 to 2.00	0.05	0.30	.005	.005				85.29	14.71	48	21	36		
B30	C92200	Tin bronze	86.00 to 89.00	5.80 to 6.50	1.00 to 1.80	3.50 to 5.00	0.20	0.20	0.80	0.05	0.03	.005	.005				86.91	13.09	42	18	43		
B30	C92300	Tin bronze	85.00 to 89.00	7.80 to 9.00	0.30 to 0.90	3.00 to 5.00	0.20	0.20	0.80	0.05	0.03	.005	.005				85.71	14.29	44	18	35		
B30	C92500	Tin bronze	85.00 to 88.00	10.30 to 12.00	1.00 to 1.50	0.50	0.20	0.20	0.80 to 1.50	0.05	0.30	.005	.005				85.19	14.81	44	18	35		
B30	C92700	Tin bronze	86.00 to 89.00	9.30 to 11.00	1.00 to 2.30	0.80	0.15	0.20	0.80	0.05	0.25	.005	.005				85.94	14.06	44	20	32		
B30	C92900	Tin bronze	82.00 to 86.00	9.30 to 11.00	2.00 to 3.00	0.25	0.15	0.10	2.80 to 4.00	0.05	0.50	.005	.005				82.89	17.11	44	20	32		
B30	C93200	High-lead tin bronze	82.00 to 84.00	6.50 to 7.50	6.50 to 7.70	2.50 to 4.00	0.20	0.30	0.80	0.08	0.03	.005	.005				81.23	18.77	40	18	35		
B30	C93700	Copper-tin-lead	78.00 to 81.00	9.30 to 10.70	8.30 to 10.70	0.80	0.10	0.50	0.50	0.08	0.05	.005	.005				78.46	21.54	30	12	15		
B30	C93800	High-lead tin bronze	76.00 to 79.00	6.50 to 7.50	14.00 to 16.00	0.80	0.10	0.50	0.80	0.08	0.05	.005	.005				75.66	24.34	34	17	30		
B30	C94300	High-lead tin bronze	69.00 to 72.00	4.70 to 5.80	23.00 to 27.00	0.80	0.10	0.70	0.80	0.08	0.05	.005	.005				67.21	32.79	27	14	20		
B30	C94500	High-lead tin bronze	70.00 to 75.00	6.30 to 8.00	16.00 to 21.50	1.00	0.10	0.70	0.80	0.08	0.05	.005	.005				71.36	28.64	27	14	20		
B30	C94700	Nickel-tin bronze	86.00 to 89.00	4.70 to 6.00	0.08	1.30 to 2.50	0.20	0.10	4.50 to 6.00	0.05	0.05	.005	.005	0.20			86.81	13.19	27	14	20		
B30	C95200	Aluminum bronze	86.00 Min.				2.50 to 4.00					8.50 to 9.50					87.75	12.25	82	27	40		
B30	C95300	Aluminum bronze	86.00 Min.				0.80 to 1.50					9.00 to 11.00					88.85	11.15	77	28	21		
B30	C95400	Aluminum bronze	83.00 Min.				3.00 to 5.00	1.50				10.00 to 11.50		0.50			83.25	16.75	90	35	15		
B30	C95500	Aluminum bronze	78.00 Min.				3.00 to 5.00	3.00 to 5.50				10.00 to 11.50		3.50			77.50	22.50	102	43	11		
B30	C95800	Nickel-Aluminum bronze	79.00 Min.		0.02		3.50 to 4.50	4.00 to 5.00				8.50 to 9.50	0.05	0.80 to 1.50			81.28	18.72	96	38	25		
B30	C96400	Cupro-nickel	65.00 to 67.00		.005		0.25 to 1.00	29.50 to 31.50	0.02	0.02		.005	0.30 to 0.50	0.80 to 1.50			67.23	32.78	70	40	25		
B30	C97300	Leaded nickel bronze	53.00 to 58.00	1.50 to 3.00	8.00 to 11.00	17.00 to 25.00	1.00	0.35	11.00 to 14.00	0.08	0.05	.005	0.05	0.50			52.72	47.29	39	17	35		

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SÍMBOLOS			
Al	Aluminio	Fe	Hierro
As	Arsénico	Mg	Magnesio
B	Boro	Mn	Manganeso
C	Carbón	Mo	Molibdeno
Cb	Columbio (niobio)	N	Nitrógeno
Ce	Cerio	Nb	Niobio (ahora Columbium)
Co	Cobalto	Ni	Níquel
Cr	Cromo	P	Fósforo
Cu	Cobre	Pb	Dirigir
Fe	Hierro	S	Azufre
Mg	Magnesio	Sb	Antimonio
Mn	Manganeso	Se	Selenio
Mo	Molibdeno	Si	Silicio
N	Nitrógeno	Sn	Estaño
Nb	Niobio (ahora Columbium)	Ta	Tantalio
Ni	Níquel	Ti	Titanio
P	Fósforo	V	Vanadio
Pb	Dirigir	W	Tungsteno
		Zn	Zinc