

CSC CANADIAN SPECIALTY CASTINGS			CSC Cobre Estándar. Latón y Bronce Grados 2016																		Si su Grado requerido no está listado, por favor contacte a la Ingeniería de CSC para más información. Otras calidades pueden ser proporcionadas a petición.				
ASTM	COBRE, LATÓN Y BRONCE:		COMPOSICIÓN QUÍMICA																			PROPIEDADES MECÁNICAS			
			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.
	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			0.15		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	.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	.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	.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	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			0.05	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