Lee Brass

Alloy Sheet

LBC-RF-0004
Rev R 11/11/2021

Low Lead Brass and Bronze Alloys (0.25 lead content and less)

Alloy Number	Common Name	ASTM Spec		Copper Cu	Tin Sn	Lead Pb	Zinc Zn	Iron Fe	Nickel Ni	Phosphorus P	Silicon Si	Aluminum Al	Antimony Sb	Manganese Mn	Sulfur S	Niobium Nb	Carbon C	Bismuth Bi	Tensile (psi)	Yield (psi)	Elongation	Machinability
C96200	90-10 CU-NI	B369	MIN	remainder				1.0	9.0										45,000	25,000	20%	10
			MAX			0.01		1.8	11.0	0.02	0.5			1.5	0.02	1.0	0.10					
C96400	70-30 CU-NI	B369	MIN	remainder				0.25	28.0							0.50			60,000	32,000	20%	20
			MAX			0.01		1.5	32.0	0.02	0.5			1.5	0.02	1.5	0.15					
C87500	Silicon Bronze	B584	MIN	79.0			12.0				3.0								60,000	24,000	16%	50
			MAX			0.09	16.0				5.0	0.5										
C87600	Silicon Bronze	B584	MIN	88.0			4.0				3.5								60,000	30,000	16%	40
			MAX			0.09	7.0				5.5											
C89833	Copper Bismuth	B584	MIN	86.0	4.0		2.0											1.7	30,000	14,000	16%	81
			MAX	91.0	6.0	0.09	6.0	0.3	1.00	0.05	0.005	0.005	0.25		0.08			2.7				
C89836	Copper Bismuth	B584	MIN	87.0	4.5		2.0											1.5	33,000	14,000	20%	85
			MAX	91.0	7.0	0.25	4.0	0.35	0.90	0.06	0.005	0.005	0.25		0.08			2.5				
C99500	NDZ-S	B763	MIN	remainder			0.5	3.0	3.5		0.5	0.5							70,000	40,000	12%	50
			MAX			0.09	2.0	5.0	5.5		2.0	2.0		0.5								

Brass and Bronze Alloys (greater than 0.25 lead content)

Alloy Number	Common Name	ASTM Spec		Copper Cu	Tin Sn	Lead Pb	Zinc Zn	Iron Fe	Nickel Ni	Phosphorus P	Silicon Si	Aluminum Al	Antimony Sb	Manganese Mn	Sulfur S	Niobium Nb	Carbon C	Bismuth Bi	Tensile (psi)	Yield (psi)	Elongation	Machinability
C84400	Fitting Metal	B584	MIN	78.0	2.3	6.0	7.0												29,000	13,000	18%	90
			MAX	82.0	3.5	8.0	10.0	0.40	1.0	0.02	0.005	0.005	0.25		0.08							
C83600	Red Brass	B584	MIN	84.0	4.0	4.0	4.0												30,000	14,000	20%	84
			MAX	86.0	6.0	6.0	6.0	0.30	1.0	0.05	0.005	0.005	0.25		0.08							
C92200	Navy M	B584	MIN	86.0	5.5	1.0	3.0												34,000	16,000	24%	42
			MAX	90.0	6.5	2.0	5.0	0.25	1.0	0.05	0.005	0.005	0.25		0.05							
C86500	421	B584	MIN	55.0			36.0	0.4				0.5		0.1					65,000	25,000	20%	26
			MAX	60.0	1.0	0.4	42.0	2.0	1.0			1.5		1.5								
C86700	422	B584	MIN	55.0		0.5	30.0	1.0				1.0		1.0					80,000	32,000	15%	55
			MAX	60.0	1.5	1.5	38.0	3.0	1.0			3.0		3.5								