

Silicon Bronze & Brass

		Composition (% maximum except as indicated)												Sand Cast Mechanical Properties Minimum				Pour Temperature [F]		
Copper Alloy Number	Ingot Number	Copper (Cu)	Tin (Sn)	Lead (Pb)	Zinc ^o (Zn)	Iron (Fe)	Nickel (Ni) incl Co	Aluminum (Al)	Manganese (Mn)	Silicon (Si)	Antimony (Sb)	Phosphorous (P)	Other	Total Named Elements	Tensile ksi	Yield ksi	Elongation %	Brinell 500 kg Load	Light Castings	Heavy Castings
C87200		89.0 min	1.0	0.50	5.0	2.5		1.5	1.5	1.0-5.0		0.50		99.5	not CDA registered alloy				2000-2150	1850-2000
C87300	500-E	94.0 min		0.09	0.25	0.20			0.8-1.5	3.5-4.5				99.5	45	18	20		2000-2150	1850-2000
C87400	500-13A	79.0 min		1.0	12.0-16.0			0.5		2.5-4.0				99.2	50	21	18		1900-2000	1800-1900
C87500	500-13B	79.0 min		0.09	12.0-16.0			0.50		3.0-5.0				99.5	60	24	16		1900-2000	1800-1900
C87600	500-12A	88.0 min		0.09	4.0-7.0	0.20			0.25	3.5-5.5				99.5	60	30	16		2000-2150	1850-2000
C87610		90.0 min		0.09	3.0-5.0	0.20			0.25	3.0-5.0				99.5	45	18	20		2000-2150	1850-2000
C87700		87.5 min	2.0	0.09	7.0-9.0	0.50	0.25		0.8	2.5-3.5	0.10	0.15		99.2	none available					
C87710		84.0 min	2.0	0.09	9.0-11.0	0.50	0.25		0.8	3.0-5.0	0.10	0.15		99.2	47	24	10			
C87800	500	80.0 min	0.25	0.09	12.0-16.0	0.15	0.20	0.15	0.15	3.8-4.2	0.05	0.01	0.05 As 0.01 Mg 0.05 S	99.5	none available				1900-2000	1800-1900
C87900		63.0 min	0.25	0.25	30.0-36.0	0.40	0.50	0.15	0.15	0.8-1.2	0.05	0.01	0.05 As	99.5	not CDA registered alloy				1950-2150	1850-2000