

High Leaded Tin Bronze

		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 (Zn)	Iron (Fe)	Antimony (Sb)	Nickel (Ni) incl Co	Sulfur (S)	Phosphorus (P)	Aluminum (Al)	Silicon (Si)	Total Named Elements	Tensile ksi	Yield ksi	Elongation %	Brinell 500 kg Load	Light Castings	Heavy Castings
C93200	315	82.0-84.0 incl Ni	6.5-7.5	6.5-7.7	2.5-4.0	0.20	0.30	0.8	0.08	0.03	0.005	0.005	99.0	30	14	15		2000-2250	1900-2050
C93400	310	82.0-85.0 incl Ni	7.3-9.0	7.0-8.7	0.8	0.20	0.30	0.8	0.08	0.03	0.005	0.005	99.0	check CDA for typical props				2000-2250	1850-2100
C93500	326	83.0-85.0 incl Ni	4.5-5.5	8.5-9.7	0.50-1.5	0.10	0.30	0.8	0.08	0.04	0.005	0.005	99.0	28	12	15		2000-2200	1900-2100
C93600		79.0-82.0	6.3-7.7	11.3-13.0	1.0	0.15	0.50	0.8	0.08	0.05	0.005	0.005	99.3						
C93700	305	78.0-81.0 incl Ni	9.3-10.7	8.3-10.7	0.8	0.10	0.50	0.50	0.08	0.05	0.005	0.005	99.0	30	12	15		2000-2250	1850-2100
C93800	319	76.0-79.0	6.5-7.5	14.0-16.0	0.8	0.10	0.50	0.8	0.08	0.05	0.005	0.005	99.0	26	14	12		2000-2250	1900-2100
C93900		76.5-79.5	5.3-7.0	14.0-17.7	1.5	0.35	0.50	0.8	0.08	0.05	0.005	0.005	98.9	none available				2000-2250	1900-2100
C94000	296	69.0-72.0	12.3-14.0	14.0-15.7	0.50	0.25	0.50	0.50-1.0	0.08	0.05	0.005	0.005	98.7	none available				2000-2150	1850-2000
C94100	325	74.0-79.0	4.7-6.5	15.0-21.7	1.0	0.10	0.7	0.8	0.08	0.05	0.005	0.005	98.7	none available				2000-2150	1850-2000
C94300	322	69.0-72.0 incl Ni	4.7-5.8	23.0-27.0	0.8	0.10	0.7	0.8	0.08	0.05	0.005	0.005	99.0	24	–	10		2000-2200	1850-2000
C94400	312	78.0-82.0	7.3-9.0	9.0-11.7	0.8	0.10	0.7	0.8	0.08	0.05	0.005	0.005	99.0	check CDA for typical props				2000-2200	1850-2000
C94500	321	70.0-75.0	6.3-8.0	16.0-21.5	1.0	0.10	0.7	0.8	0.08	0.05	0.005	0.005	99.0	check CDA for typical props				2000-2200	1850-2000