

## Leaded Red & Semi-Red Brass

		Composition (% maximum except as indicated)													Sand Cast Mechanical Properties Minimum				Pour Temperature [F]	
Copper Alloy Number	Ingot Number	Copper <sup>e</sup> (Cu) incl Ni	Tin (Sn)	Lead (Pb)	Zinc <sup>e</sup> (Zn)	Iron (Fe)	Antimony (Sb)	Nickel (Ni) incl Co	Sulfur (S)	Phosphorus (P)	Aluminum (Al)	Silicon (Si)	Other	Total Named Elements	Tensile ksi	Yield ksi	Elongation %	Brinell 500 kg Load	Light Castings	Heavy Castings
	132	87.5 min	1.6-2.0	1.5-2.0	7.5-8.5	0.10	0.10	0.20	0.04	0.01	0.003	0.006	0.05 Mn							
C83300	131	92.0-94.0	1.0-2.0	1.0-2.0	2.0-6.0									99.3	check CDA for typical props					
C83450		87.0-89.0	2.2-3.0	1.5-2.5	5.8-7.5	0.25	0.25	0.8-1.5	0.08	0.03	0.005	0.005		99.3	30	14	25		2150-2350	2000-2150
C83500		86.0-88.0	5.5-6.5	3.5-5.5	1.0-2.5	0.25	0.25	0.50-1.0	0.08	0.03	0.005	0.005		99.3	none available					
C83600	115	84.0-86.0	4.3-6.0	4.0-5.7	4.3-6.0	0.25	0.25	0.8	0.08	0.03	0.005	0.005		99.3	30	14	20		2100-2350	1950-2150
C83800	120	82.0-83.5	3.5-4.2	5.8-6.8	5.5-8.0	0.25	0.25	0.8	0.08	0.02	0.005	0.005		99.3	30	13	20		2100-2300	1950-2150
C84200	101	78.0-82.0	4.3-6.0	2.0-2.8	10.0-16.0	0.35	0.25	0.8	0.08	0.02	0.005	0.005		99.3	check CDA for typical props				2100-2300	1950-2150
C84400	123	79.0-82.0	2.5-3.5	6.3-7.7	7.0-10.0	0.35	0.25	0.8	0.08	0.02	0.005	0.005		99.3	29	13	18		2100-2300	1950-2150
C84500	125	77.0-79.0	2.0-4.0	6.0-7.5	10.0-14.0	0.40	0.25	1.0	0.08	0.02	0.005	0.005		99.3	check CDA for typical props					
C84800	130	75.0-76.7	2.3-3.0	5.5-6.7	13.0-16.0	0.35	0.25	0.8	0.08	0.02	0.005	0.005		99.3	28	12	16		2100-2300	1950-2150