

Leaded Red & Semi-Red Brass

		Composition (% maximum except as indicated)														Sand Cast Mechanical Properties				Casting Temperatures		ASTM Casting Standards				
Copper Alloy Number	Ingot Number	Cu	Sn	Pb	Zn	Fe	Sb	Ni	Si	Al	Mn	P	S	Bi	Cd	Se	Te	Total Named Elements	Minimum							
																			Tensile	Yield	Elongation	Brinell			Conductivity	
132 Alloy	132	87.5 min	1.6-2.0	1.5-2.0	7.5-8.5	0.10	0.10	0.20	0.006	0.003	0.05	0.01	0.04						99.75							
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	0.005	0.005		0.03	0.08						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	0.005	0.005		0.03	0.08						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	0.005	0.005		0.03	0.08						99.3	30	14	20		2100-2350	1950-2150	B62, B271, B505, B584
C83800	120	82.0-83.5	3.5-4.2	5.8-6.8	5.5-8.0	0.25	0.25	0.8	0.005	0.005		0.02	0.08						99.3	30	13	20		2100-2300	1950-2150	B58, B271, B505, B763
C84200	101	78.0-82.0	4.3-6.0	2.0-2.8	10.0-16.0	0.35	0.25	0.8	0.005	0.005		0.02	0.08						99.3	check CDA for typical props				2100-2300	1950-2150	B505
C84400	123	79.0-82.0	2.5-3.5	6.3-7.7	7.0-10.0	0.35	0.25	0.8	0.005	0.005		0.02	0.08						99.3	29	13	18		2100-2300	1950-2150	B584, B271, B505, B763
C84500	125	77.0-79.0	2.0-4.0	6.0-7.5	10.0-14.0	0.4	0.25	1.0	0.005	0.005		0.02	0.08						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	0.005	0.005		0.02	0.08						99.3	28	12	16		2100-2300	1950-2150	B584, B271, B505, B763