

Yellow Brass

		Composition (% maximum except as indicated)														Sand Cast Mechanical Properties				Pour Temperature	
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)	Manganese (Mn)	Arsenic (As)	Total Named Elements	Tensile ksi	Yield ksi	Elongation %	Brinell 500 kg Load	Light Castings	Heavy Castings
C85200	400	70.0-73.0 incl Ni	0.8-1.7	1.5-3.5	21.0-27.0	0.50	0.20	0.8	0.05	0.01	0.005	0.05			99.1	35	12	25		2000-2100	1850-2000
C85400	403	66.0-69.0 incl Ni	0.50-1.5	1.5-3.5	25.0-31.0	0.50		0.8			0.005	0.05			98.9	30	11	20		1950-2100	1850-1950
C85500		59.0-63.0 incl Ni	0.20	0.20	balance	0.20		0.20					0.20		99.1	check CDA for typical props					
C85700	405.2	58.0-63.0 incl Ni	0.50-1.5	0.8-1.5	33.0-40.0	0.50		0.8			0.80	0.05			98.7	40	14	15		1950-2150 DC: 1700 - 1800	1850-2000
C85800	405.1	57.0 min incl Ni	1.5	1.5	31.0-41.0	0.50	0.05	0.50	0.05	0.01	0.50	0.25	0.25	0.05	98.7	none available				1950-2150 DC: 1700 - 1800	1850-2000