

# Cupro Nickel

Copper Alloy Number	Composition (% maximum except as indicated)														Sand Cast Mechanical Properties Minimum				Pour Temperature [F]	
	Copper (Cu)	Lead (Pb)	Iron (Fe)	Nickel (Ni) incl Co	Sulfur (S)	Phosphorus (P)	Aluminum (Al)	Manganese (Mn)	Silicon (Si)	Niobium (Nb)	Carbon (C)	Titanium (Ti)	Other	Total Named Elements	Tensile ksi	Yield ksi	Elongation %	Brinell 500 kg Load	Light Castings	Heavy Castings
C96200	84.5-87.0	0.005	1.0-1.8	9.0-11.0	0.02	0.02	0.005	0.8-1.5	0.25	1.0	0.05			99.5	45	25	20		2400-2500	2250-2400
C96300	balance	0.01	0.50-1.5	18.0-22.0	0.02	0.02		0.25-1.5	0.50	0.50-1.5	0.15			99.5	check CDA for typical props					
C96400	65.0-67.0	0.005	0.25-1.0	29.5-31.5	0.02	0.02	0.005	0.8-1.5	0.30-0.50	0.50-1.5	0.05			99.5	60	32	20		2500-2700	2350-2500
C96800	balance	0.005	0.50	9.5-10.5	0.0025	0.005	0.10	0.05-0.30	0.05	0.10-0.30		0.01	7.5-8.5 Sn 1.0 Zn .005-.15 Mg 0.001 Bi 0.001 B	99.5	125	100 [.2% offset]	3			