

CHEMICAL COMPOSITION

Chemical Composition Limits (%)

ALLOY	COPPER	ZINC	LEAD	IRON	TIN	SILICON	ALUMINUM	PHOSPHORUS	MANGANESE	NICKEL (INCL. COBALT)	ANTIMONY	OTHER ELEMENTS
C93200	81-85	1-4	6-8	0.2	6.3-7.5	0.005-0.08	0.005	0.15	None	1	0-0.35	0-0.08 Sulfur
C95400	83 (minimum)	None	None	3-5	None	None	10-11.5	None	0-0.5	0-1.5	None	None
SAE 841	87.5-90.5	None	None	1	9.5-10.5	None	None	None	None	None	None	0.3 Carbon

PHYSICAL & MECHANICAL PROPERTIES

ALLOY	NOMINAL DENSITY	MODULUS OF ELASTICITY	MELTING POINT OR RANGE	THERMAL CONDUCTIVITY	ELECTRICAL RESISTIVITY	TEMPER	HARDNESS	ULTIMATE TENSILE STRENGTH	YIELD STRENGTH	ELONGATION
	lbs. /cu.in	ksi	degrees F	BTU/sq.ft./ft./hr./degrees F @ 68 degrees F	ohms @ 68 degrees F		Rockwell (unless noted)	ksi	ksi	%
C93200	0.322	14,500	1570-1790	33.6	Not Rated	As Cast	65 Brinell	35	20	10
C95400	0.269	15,500	1880-1900	33.9	80.2	As Cast	150-170 Brinell	85	32-35	12-18
SAE 841	0.231-0.246	Not Rated	1800-2000	Not Rated	Not Rated	As Pressed	H50	14	9	1