



C93200 BEARING BRONZE

ASTM B271 ASTM B505 ASTM B584 QQ-C-390

UNS No.	Copper	Tin	Lead	Zinc	Nickel incl. Cobalt	Iron	Aluminum	Antimony	Sulfur	Phosphorus	Silicon
C93200	81.0-85.0	6.3-7.5	6.0-8.0	2.0-4.0	1.0 max	0.20 max	.005	0.35 max	0.08 max	1.5	0.005 max

C93200 High-Leaded Tin Bronze, also known as SAE 660 Bronze, is the most widely used bearing bronze alloy. The elevated level of lead found in CDA C93200 Tin Bronze contributes to this alloys excellent machinability and good anti-friction properties. C93200 is not subject to dezincification and has reasonable corrosion resistance to seawater and brine. C93200 Bronze is available as centrifugal cast, continuous cast and sand cast bar. CDA C93200 High-Leaded Tin Bronze is ideally suited for high speed, light duty applications, including washers, bushings, bearings, fittings, pump impellers and fixtures.

Fabrication Properties

Density @ 68° F	0.322 lb/in ³
Melting Range	1570-1790° F
Casting Yield	High
Drossing	Low
Effect on Section Size	Medium
Fluidity	Medium
Gassing	Medium
Machinability rating (C36000= 100)	70
Brazing	Good
Soldering	Excellent
Gas-shielded arc welding	Not recommended
Oxy-acetylene welding	Not recommended
Coated metal-arc welding	Not recommended

Mechanical Properties

Form	Specification	Tensile, min ksi (MPa)	Yield, max ksi (MPa)	Elongation in 2", % min
Centrifugal Cast	ASTM B271	30 (207)	14 (97)	15
Continuous Cast	ASTM B505	35 (241)	20 (138)	10
Sand Cast	ASTM B584	30 (207)	14 (97)	15

