


Leaded Tin Bronze C93200

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SINO ALLOY
BRONZE

C93200 Bearing Bronze Alloy is the most popular bronze alloy we provide to our global customers. Generally, C93200 bronze alloy is used for bearing alloy possessing with good anti-friction properties, ample strength and hardness, adequate ductility and excellent machinability. This material is used as bearings, bushings, light duty gears and sprockets, wear strips and plates. It is used extensively in pumps and cylinders, machine tools, earth moving machinery and a myriad of general purpose applications.

Typical Uses

- Automotive automotive fittings
- Fasteners washers
- Industrial thrust washers, pumps, bushings, machine parts, main spindle bearings, machine tool bearings, bearings for cranes, trunion bearings, roll neck bearings, rolling mill bearings, linkage bushings for presses, fuel pump bushings, water pump bushings, diesel engine wrist pin bushings, forging press toggle lever bearings, hydraulic press stuffing box, hydraulic press main lining, pump impellers, general purpose bushings, fittings, pump fixtures, insert bearings, bearings

Shape/Form

- Semi-finished, mill stock or near-net shapes, anode, bar stock, billet/bloom, squares, hex, plate, profile or structural shape, flats/rectangular bar

Similar or Equivalent Specification

Alloy	ASTM	ASARCON	SAE	AMS	Federal	Military	Other	
C93200	B505	77	660		QQ-C-390, E7;	MIL-B-11553,	BEARING	
	B144, 3B		J461		QQ-B-1005,		COMP 12	BRONZE
			J462		COMP 12			

Chemical Composition

Alloy	Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Si%
C93200	81.00-	6.30-	6.00-	2.00-							
	85.00	7.50	8.00	4.00	0.20	1.00	0.35	0.15	0.08	0.005	0.005

Mechanical Properties

Tensile Strength(min)		Yield Strength(at .5% extension under load min)		Elongation(in 2in. or 50mm min, %)	Brinell Hardness(min)	Remarks
Ksi	MPa	Ksi	MPa			
35	241	20	138	10		