

Tin Bronze C90500

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SINO ALLOY
BRONZE

Typical Uses

- Building heavy construction equipment
- Electrical connectors
- Fasteners nuts
- Plumbing water conditioners, steam fittings
- Industrial clamps, bushings, bearings, piston rings, pump bodies, valves, seal rings, worm gears, expansion bearings, pump impellers, valve bodies, gears, gear blanks, finishing dies for wood pulp industry

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
C90500	B505		62		QQ-C-390, D6		
	B22	100	J461	4845	QQ-B-1005,	MIL-B-11553,	GUN METAL
	B143,A		J462		COMP 16	COMP 16	

Chemical Composition

Alloy	Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Si%
C90500	86.00-	9.00-		1.00-							
	89.00	11.00	0.30	3.00	0.20	1.00	0.20	1.5	0.05	0.005	0.005

Mechanical Properties

Tensile Strength(min)		Yield Strength(at .5% extention under load min)		Elongation(in 2in. or 50mm min, %)	Brinell Hardness(min)	Remarks
		Ksi	MPa			
44	303	25	172	10	N/A	