

Alloy: C90300

- Bronze Family:** High Tin Bronze
- Type:** Copper; alloy
- Solids:** 1/2" to 10" OD
- Tubes:** 1" to 16" OD
- Rectangles:** Up to 20" wide
- Shape/Form:** Bar stock; flats/rectangular bar; hex; squares

Typical Uses

- Industrial** Valves, Potable Water Applications, Gears, Pump Components, Bearings, Bushings, Pump Impellers, Piston Rings, Valve Components, Seal Rings, Stem Fittings, Trunnion Bearings, Wrist-Pin Bushings, Piston-Pin Bushings, Machine Tool Bushings, Roll-Mill Bearings, Bridge Bearings
- Marine** Marine Fittings
- Plumbing** Plumbing Fixtures

Chemical Composition

Alloy	Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%	Bi%
C90300	86.00-89.00	7.50-9.00	0.30	3.00-5.00	0.20	1.00	0.20	1.50	0.05	0.005	N/A	0.005	N/A

Note: Single values represent maximums

Machinability

Alloy	Machinability Rating	Density (lb/cu in.)
C90300	30	0.318

Mechanical Properties

Tensile Strength, min	Yield Strength, at .5% extension under load min	Elongation in 2 in. or 50 mm min, %	Brinell Hardness, min	Remarks
ksi	ksi			
44	22	18	70	