



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

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

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 | |