

# Tin Bronze C90300

www.sinobronze.com  
sales@sinobronze.com  
Tel: 0086-28-8625-0130

**SINO** H.F.B.  
**BRONZE**

## Typical Uses

- Building heavy construction equipment
- Industrial bearings, bushings, gear blanks, gears, piston rings, pump bodies, pump impellers, valve bodies, valves
- Fasteners swivel
- Plumbing steam fittings

## 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

## Benefits

Hardness, good corrosion resistance, high wear resistance, moderate machinability, proven alloys in wide uses

## Similar or Equivalent Specification

| Alloy  | ASTM    | ASARCON | SAE | AMS | Federal | Military | Other |
|--------|---------|---------|-----|-----|---------|----------|-------|
| C90300 | B505-08 |         |     |     |         |          |       |

## Chemical Composition

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

## Mechanical Properties

| Tensile<br>Strength(min) |  | Yield<br>Strength(at .5%<br>extension under<br>load min) |     | Elongation(in 2in. or<br>50mm min, %) | Hardness(typical<br>Bhn - 500kg) | Remarks |
|--------------------------|--|----------------------------------------------------------|-----|---------------------------------------|----------------------------------|---------|
|                          |  | Ksi                                                      | MPa |                                       |                                  |         |
| 44                       |  | 22                                                       |     | 18                                    | 70                               |         |