

High-Leaded Tin Bronze C93800

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SINO BRONZE
BRONZE

Typical Uses

- Industrial bearings, railroad engine casings, pumps, industrial centrifuges, machine parts, low friction, moderate pressure bushings, railroad applications, acid resisting applications, backs for lined journal bearings for passenger cars, general service bearings for moderate pressure, wearing material for rod bushings, wearing material for wedges, wearing material for shoes, pump impellers for acid mine water, pump bodies for acid mine water, freight car bearings, backs for lined journal bearings for locomotives
- Marine large bearings for ships

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 Desc |
|--------|----------|---------|-----|-----|---------------|--------------|------------|
| C93800 | B505 | | | | QQ-C-390, E6; | | |
| | B66 | 715 | | | QQ-B-1005, | MIL-B-11553, | ANTI-ACID |
| | B144, 3D | | | | COMP 19 | COMP 19 | METAL |

Chemical Composition

| Alloy | Cu% | Sn% | Pb% | Zn% | Fe% | Ni% | Sb% | P% | S% | Al% | Si% |
|--------|--------|-------|--------|------|------|------|------|------|------|-------|-------|
| C93800 | 75.00- | 6.30- | 13.00- | | | | | | | | |
| | 79.00 | 7.50 | 16.00 | 0.80 | 0.15 | 1.00 | 0.80 | 0.05 | 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 | | | |
| 25 | 172 | 16 | 110 | 5 | | |