

Leaded Tin Bronze C92200

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SINO ALLOY
BRONZE

Typical Uses

- Architecture: ornamental castings
- Building: heating equipment, cooling equipment
- Fasteners nuts: Industrial cryogenic valves, valves for water meters, medium pressure hydraulic equipment, valve components, pumps used to 550° F, pump impellers, fittings used to 550° F, gears, piston rings, bushings, bearings
- Marine: marine castings
- Plumbing: medium pressure steam equipment to 550° F

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 |
|--------|----------------------------|---------|---------------------|-----|---------------------------------------|--|---------------|
| C92200 | B505 B61 B143, 2A | 61 | 622 J461 J462 | | QQ-C-390, D4; QQ-B-1005, COMP 1 | MIL-B-11553, COMP 1; MIL-B-16541 | NAVY M BRONZE |

Chemical Composition

| Alloy | Cu% | Sn% | Pb% | Zn% | Fe% | Ni% | Sb% | P% | S% | Al% | Si% |
|--------|-----------------|---------------|---------------|---------------|------|------|------|------|------|-------|-------|
| C92200 | 86.00- 90.00 | 5.50- 6.50 | 1.00- 2.00 | 3.00- 5.00 | 0.25 | 1.00 | 0.25 | 0.05 | 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 | Ksi | MPa | | | |
| 38 | 262 | 19 | 19 | 18 | N/A | |