

Copper Alloys

C93200 (SAE660) Bar

Datasheet Updated
05 August 2021

RANGE

| Product Form | Size Range |
|--------------|------------|
| Round Bar | 1/2" - 8" |

SPECIFICATIONS

| | |
|------------|--------|
| Commercial | SAE660 |
| US | C93200 |

A leaded (tin) continuously cast bronze - A standard for light/medium bearing applications.

CHEMICAL COMPOSITION

| Element | % Present |
|-----------------|---------------|
| Chromium (Cr) | 0.00 - 0.10 |
| Copper (Cu) | 81.00 - 85.00 |
| Lead (Pb) | 6.00 - 7.50 |
| Zinc (Zn) | 4.00 - 6.00 |
| Nickel (Ni) | 0.00 - 0.10 |
| Phosphorous (P) | 0.00 - 0.15 |
| Tin (Sn) | 6.30 - 7.50 |

ALLOY DESIGNATIONS

- ASTM B 505
- ASTM B 271

SUPPLIED FORMS

- Bar

APPLICATIONS

- General utility bearings, bushings and wear plates
- Valves
- Fittings
- Hydraulics
- Fuel & water pump bushings
- Thrust washers

CHARACTERISTICS

- High wear resistance
- Excellent machinability
- Good pressure tightness
- Excellent wear resistance
- Easily machinable
- Free cutting
- Good load carrying capacity and thermal conductivity
- Bronze with a high lead content offers good lubricity
- Excellent friction properties

MECHANICAL PROPERTIES

| Property | Value |
|-------------------|-----------------------|
| Elongation A50 mm | 10 % |
| Hardness Brinell | 65 HB |
| Tensile Strength | 240 N/mm ² |
| 0.2% Proof Stress | 138 N/mm ² |

DISCLAIMER

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