

SAE660

LEADED BRONZE ALLOY

PRODUCT DESCRIPTION

Suitable for a broad range of applications which are under medium loads whilst using adequate lubrication, SAE660 is a continuously cast leaded copper-based alloy known as a leaded bronze. It is highly suited to pump and valve component manufacture due to the alloy's reasonable resistance to brine. SAE660 offers good sliding and dry running properties and is not subject to dezincification.

KEY FEATURES

- Widespread application usage
- Excellent anti-friction qualities
- Excellent machining properties
- A very versatile alloy
- Ideal in bushes and bearings under medium loads

APPLICATIONS

- Valve and slide seating rings, hydraulics
- Fuel and water pump bushes
- General purpose bushes & bearings



AVAILABILITY

Round bar, hollow bar, flat bar, plate

MATERIAL SPECIFICATIONS

SAE660 | SigmaBronze 7 | BS1400 LB4 | C93200

MACHINABILITY

Excellent

CHEMICAL COMPOSITION (weight %)

| | Cu | Al | Sb | Fe | Pb | Ni | P | Si | S | Sn | Zn |
|-----|-------|-------|------|------|------|------|------|-------|------|------|------|
| Min | 81.00 | | | | 6.00 | | | | | 6.30 | 1.00 |
| Max | 85.00 | 0.005 | 0.35 | 0.20 | 8.00 | 1.00 | 0.15 | 0.005 | 0.08 | 7.50 | 4.00 |

MECHANICAL PROPERTIES (minima all sizes continuous cast)

| | |
|---------------------|-----------------------|
| UTS | 205 N/mm ² |
| 0.2% Proof Strength | 100 N/mm ² |
| Elongation | 15% |
| Hardness | 70 HB |