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SAE 660 has become one of the most widely used alloys in the leaded bronze range in the last few years. This is mainly due to its versatility as a medium range bronze with many applications.

The cost effectiveness of SAE660, when used in applications where sand-cast tin bronzes were widely used, is well known.

SAE 660 has many uses such as:

- Bearings for lifting tackle.
- Secondary bearings in machine tools
- Valve and slide seating rings
- Bearings in package machinery
- Guide bushes etc...
- General bearings in mechanical engineering and chemical equipment.

SAE 660 is one of the continuously cast semi finished products which provides the following benefits...

- Completely sound castings, free from pores, shrinkage, cavities, blowholes and segregation. (*Hence a very low scrap yield.*)
- Smooth clean surfaces and close dimensional tolerances. (*Hence very little machining and therefore negligible material loss and low production costs.*)



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- Good machinability and no hard casting skin.
(Therefore a longer tool life).
SAE 660 is mainly available in rods and hollows...

Round Bar from 1/2"-12"

Hollows from 1"OD-16"OD

Chemical & Physical properties

Typical chemical composition

Cu 83% Sn 7% Zn 3% Pb 7%

Typical mechanical properties

| Proof stress Strength | tensile 2% | Elongation (n/mm ²) | Hardness % | HB |
|--------------------------|----------------|------------------------------------|---------------|--------------|
| | 150-170 | 270-360 | 18-5 | 65-85 |

Tolerances

Up to and including 4" + 1/32" – 0

Above 12" + 1/16" – 0

Above 12" + 3mm – 0

Up to and including 4" – 1/32" ID + 0

Above 12" – 1/16" ID + 0

Above 12" – 3mm ID + 0

The information above is based on our current knowledge and is given in good faith; however the company will accept no liability in respect of any third party reliance thereon.