

Bronze Alloy

Typical Applications

- General purpose bushes & bearings
- Automotive fittings
- Thrust washers
- Fittings
- Valve & slide seating rings
- Hydraulics
- Bearings for lifting tackle
- Fuel & water pump bushings

Product Description

SAE660 is a leaded continuously cast copper based alloy that is suitable for a variety of applications that are under medium loads whilst using adequate lubrication. This alloy offers good sliding and dry running properties and is not subject to dezincification. It also has a reasonable resistance to brine making it suitable for pump and valve components.

Weldability

Not suitable for welding but is soft-solderable and to some extent also brazable.

Related material specifications

- SigmaBronze 7
- BS1400 LB4
- C93200

Key features

- A versatile bronze that can be used in many applications
- Excellent machining properties
- Used in bushes and bearings under medium loads
- Good wear resistance
- Excellent anti-friction qualities
- Higher running speeds

Availability

Round bar, hollow bar, flat bar, plate.

Cut to size capability

There are thirty power saws within the Smiths group including a fully automated magazine feed CNC rod blanking line. We can economically cut from one off blanks to the largest production run for immediate or just in time deliveries.

Corrosion Resistance

Reasonable corrosion resistance

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

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:

Smiths Belfast	02895 908 897
Smiths Biggleswade	01767 604 704
Smiths Birmingham	0121 728 4940
Smiths Bristol	0117 971 2800
Smiths Chelmsford	01245 466 664
Smiths Gateshead	0191 469 5428
Smiths Horsham	01403 261 981

Smiths Leeds	0113 307 5167
Smiths Manchester	0161 794 8650
Smiths Norwich	01603 789 878
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Quality & Testing:



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