

SigmaBronze 7

LEADED BRONZE ALLOY

PRODUCT DESCRIPTION

SigmaBronze 7 is a viable alternative to SAE660 in many applications because it has the advantage of being available in metric sizes. Like SAE660, the alloy is a leaded continuously cast copper-based alloy suitable for applications under medium load whilst using adequate lubrication. Offering good sliding and dry running characteristics, SigmaBronze 7 is not subject to dezincification. It is suitable for use in applications such as pump and valve manufacture since it has reasonable resistance to brine.

KEY FEATURES

- Good wear resistance
- Excellent machining characteristics
- Excellent anti-friction qualities
- Versatile and broad range of uses
- Available in metric sizes

APPLICATIONS

- Automotive fittings
- Fuel & water pump bushes, pump/valve components
- Hydraulics, bearings for lifting tackle, thrust washers



AVAILABILITY

Bar, tube & flat bar

MATERIAL SPECIFICATIONS

SigmaBronze 7 | SAE660 | BS1400 LB4

MACHINABILITY

Excellent

CHEMICAL COMPOSITION (weight %)

	Cu	Al	Fe	Ni	P	Pb	Si	Sn	Zn	S	Sb
Min	81.00					5.00		5.40	2.00		
Max	85.00	0.01	0.20	2.00	0.10	8.00	0.01	8.00	5.00	0.10	0.30

MECHANICAL PROPERTIES (actual properties according to specification chosen)

Hardness Brinell	min. 70
Tensile Strength (N/mm ²)	min. 260
Yield Point (N/mm ²)	min. 120
Elongation at break (%)	min. 12