SigmaBronze 7

**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 %)**

<table>
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<tr>
<th></th>
<th>Cu</th>
<th>Al</th>
<th>Fe</th>
<th>Ni</th>
<th>P</th>
<th>Pb</th>
<th>Si</th>
<th>Sn</th>
<th>Zn</th>
<th>S</th>
<th>Sb</th>
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<td></td>
<td></td>
<td>5.40</td>
<td>2.00</td>
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<td>0.01</td>
<td>0.20</td>
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<td>8.00</td>
<td>5.00</td>
<td>0.10</td>
<td>0.30</td>
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</table>

**MECHANICAL PROPERTIES** (actual properties according to specification chosen)

- Hardness Brinell: min. 70
- Tensile Strength (N/mm²): min. 260
- Yield Point (N/mm²): min. 120
- Elongation at break (%): min. 12

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