CZ130 (CW623N)
Technical Datasheet

Machinable Brass

Applications
• Hot forging fabrication
• Decorative applications

Alloy Attributes
• High tensile strength
• High corrosion resistance

Product Description
CZ130 brass alloy is a machinable brass typically used in sections. CZ130 also covers brass with Aluminium removed from the above composition. This variation is CW623N. The addition of Aluminium imparts a golden lustre which eliminates the need for additional polishing.

Machinability
Very good with a rating of 90.

Hot Working / Cold Working
Hot working is excellent. Cold working is poor to fair.

Availability
Angle, channel and T-section

Related Material Specifications
• CW624N • CW623N • CZ130
• CuZn43Pb2Al • CuZn43Pb2

Corrosion Resistance
Good corrosion resistance.

Weldability
Soldering - Excellent
Oxyacetylene welding - Not recommended
Gas shielded arc welding - Not recommended
Resistance welding - Fair
Friction welding - Good

Chemical Composition (weight %)

<table>
<thead>
<tr>
<th>Weight (%)</th>
<th>Cu</th>
<th>Pb</th>
<th>Al</th>
<th>Zn</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>55</td>
<td>1.6</td>
<td>0.05</td>
<td>Balance</td>
</tr>
<tr>
<td>max.</td>
<td>57</td>
<td>3.0</td>
<td>0.50</td>
<td>balance</td>
</tr>
</tbody>
</table>

Mechanical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>350 - 420 MPa</td>
</tr>
<tr>
<td>Proof Stress 0.2%</td>
<td>150 - 220 MPa</td>
</tr>
<tr>
<td>Elongation A5 (%)</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Hardness HV</td>
<td>90 - 120</td>
</tr>
</tbody>
</table>

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.