CZ132 (CW602N)

Technical Datasheet

Dezincification Brass

Applications

• Fluid handling systems
• Water fittings
• Hot formed and machined parts

Product Description

CZ132 is a leaded arsenical brass with a duplex structure. It is a brass alloy specifically developed to provide good levels of resistance to dezincification corrosion, a feature common in hot working brasses. The alloy has good machinability and is easily hot forged. Traditionally CZ132 is used in water fittings which are required to be produced by hot stamping and machining.

Corrosion Resistance

High corrosion resistance.

Availability

Bar

Alloy Attributes

• Excellent dezincification resistance
• Good strength and ductility
• Good machinability and formability
• High corrosion resistance

Related Material Specifications

• CZ132 • CW602N • CuZn36Pb2As • C35330

Weldability

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

Chemical Composition (weight %)

<table>
<thead>
<tr>
<th>Weight (%)</th>
<th>Cu</th>
<th>Pb</th>
<th>As</th>
<th>Zn</th>
<th>Sn</th>
<th>Fe</th>
<th>Total Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>Rem</td>
<td>1.7</td>
<td>0.08</td>
<td>35.0</td>
<td>0.2</td>
<td>0.2</td>
<td>0.5 max.</td>
</tr>
<tr>
<td>max.</td>
<td>Rem</td>
<td>2.8</td>
<td>0.15</td>
<td>37.0</td>
<td>0.2</td>
<td>0.2</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Properties

Ultimate Tensile Strength
Proof Stress 0.2%
Elongation A5 (%)

| 350 N/mm² | - |
| 22%        |   |

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.

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