CZ122 (CW617N)
Technical Datasheet

Applications
- Automotive components
- Precision machined components
- Hot forged and pressed components
- Valve parts
- Architectural hardware
- Speciality fasteners

Product Description
CZ122 is classed as a stamping brass with excellent hot forming properties and high machinability. With these characteristics, this particular alloy is used extensively in the production of more complex hot pressed components. The material is mainly supplied as bar for forging stock although it is also free machining - the sheet equivalent of CZ122 is CZ120.

Alloy Attributes
- High machinability rating
- Excellent hot forming properties
- Good corrosion resistance

Material Specifications
- CZ122
- C37700
- CW617N
- CuZn39Pb2

Chemical Composition (weight %)

<table>
<thead>
<tr>
<th>Weight (%)</th>
<th>Cu</th>
<th>Pb</th>
<th>Fe</th>
<th>Zn</th>
<th>Total Imps</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>56.0</td>
<td>1.5</td>
<td>0.0</td>
<td>Rem</td>
<td>0.0</td>
</tr>
<tr>
<td>max.</td>
<td>58.5</td>
<td>2.5</td>
<td>0.3</td>
<td>Rem</td>
<td>0.7 max</td>
</tr>
</tbody>
</table>

Weldability
- Soldering - Excellent
- Brazing - Good
- Oxy-acetylene welding - Not Recommended
- Gas-shielded arc welding - Not Recommended
- Resistance welding: Spot & Seam Butt - Fair

Corrosion Resistance
Good.

Typical Physical Properties
- Melting Point: 895°C
- Density: 8.4 g/cm³
- Specific Heat: 380 J/Kg°K
- Thermal conductivity (RT): 117 W/m°K
- Thermal expansion coefficient (20-200°C): 20 x 10⁻⁶
- Electrical conductivity: 27% IACS

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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