CZ126 (CW707R)
Technical Datasheet

Applications
- Heat exchangers
- Condensers
- Chemical processing
- Subsea applications
- Undersoil applications
- Steam Turbines

Product Description
CZ126 is known as an arsenical brass. The introduction of a small amount of arsenic acts as a very capable corrosion inhibitor making the material suitable for use in most waters. The alloy has very good corrosion resistance offering widespread resistance to many chemicals. The material is easily worked and is also good for soldering and brazing.

Alloy Attributes
- High strength
- High ductility
- Good formability
- Very good corrosion resistance

Related Material Specifications
- C26130
- CW707R
- CuZn30As
- CuZn30 (FR)

Corrosion Resistance
Very good.

Weldability
Not recommended

Availability
Tube

Chemical Composition (weight %)

<table>
<thead>
<tr>
<th>Weight (%)</th>
<th>Cu</th>
<th>Zn</th>
<th>As</th>
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</thead>
<tbody>
<tr>
<td>Nominal</td>
<td>70.0</td>
<td>30.0</td>
<td>0.04</td>
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Mechanical Properties

- Tensile Strength: 400 N/mm²
- Hardness (HB): 130 HV

Typical Physical Properties

- Melting Point: 995°C
- Density: 8.55 gm/cm³ @ 20°C
- Specific Heat: 375 J/kg.°K @ 20°C
- Thermal conductivity (RT): 120 W/m. °K @ 20°C
- Thermal expansion coefficient (20-300°C): 20.0 x 10⁻⁶/°C
- Electrical conductivity (annealed): 28% 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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