

CZ122 (CW617N)

Technical Datasheet



Service. Quality. Value.

Stamping Brass

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.

Availability

Bar

Alloy Attributes

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

Material Specifications

- CZ122
- CW617N
- C37700
- CuZn39Pb2

Corrosion Resistance

Good.

Weldability

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

Chemical Composition (weight %)

Weight (%)	Cu	Pb	Fe	Zn	Total Imps
min.	56.0	1.5	0.0	Rem	0.0
max.	58.5	2.5	0.3	Rem	0.7 max

Typical Physical Properties

Melting Point	895°C
Density	8.4 g/cm ³
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.

UK Service Centres:

Smiths Belfast 02895 908 897
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Smiths Birmingham 0121 728 4940
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Quality & Testing:



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