

# CZ132 (CW602N)

## Technical Datasheet



### Dezincification Brass

Service. Quality. Value.

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

#### Chemical Composition (weight %)

Weight (%)	Cu	Pb	As	Zn	Sn	Fe	Total Impurities
min.	Rem	1.7	0.08	35.0			
max.	Rem	2.8	0.15	37.0	0.2	0.2	0.5 max.

#### Mechanical Properties

Ultimate Tensile Strength	350 N/mm <sup>2</sup>
Proof Stress 0.2%	-
Elongation A5 (%)	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.

#### UK Service Centres

#### Quality Testing

Smiths Belfast	02895 908 897	Smiths Leeds	0113 307 5167
Smiths Biggleswade	01767 604 704	Smiths Manchester	0161 794 8650
Smiths Birmingham	0121 728 4940	Smiths Norwich	01603 789 878
Smiths Bristol	0117 971 2800	Smiths Nottingham	0115 925 4801
Smiths Chelmsford	01245 466 664	Smiths Redruth	01209 315 512
Smiths Gateshead	0191 469 5428	Smiths Verwood	01202 824 347
Smiths Horsham	01403 261 981	Main Office	0845 527 3331

[www.smithmetal.com](http://www.smithmetal.com) info [smithmetal.com](mailto:smithmetal.com)

All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.