

CZ126 (CW707R)

Technical Datasheet



Service. Quality. Value.

Arsenical Brass

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
- BS2871
- CuZn30As
- CuZn30 (FR)

Corrosion Resistance

Very good.

Weldability

Not recommended

Availability

Tube

Chemical Composition (weight %)

Weight (%)	Cu	Zn	As
Nominal	70.0	30.0	0.04

Mechanical Properties

Tensile Strength	400 N/mm ²
Hardness (HB)	130 HV

Typical Physical Properties

Melting Point	995°C
Density	8.55 gm/cm ³ @ 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.

UK Service Centres:

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

Quality & Testing:



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