Brass Alloy

Service. Quality. Value.

Applications

- Heat exchangers
- Radiator tanks
- Decorative components
- Switch components
- Lamp holders
- General copper smithing work

Product Description

CZ108/CW508L is referred to as a basic brass containing 37% zinc. Classified predominantly as an alpha brass, CZ108 is a popular material grade due to its hot and cold working properties. It is a high purity cold forming brass and is used where severe bending properties are required. The material can be machined but only at slow speed with very light feeds.

Cold Working

Excellent and can be readily drawn.

Hot Working

Fabrication rated as fair

Alloy Attributes

- Very good bending properties
- Reasonable machining properties
- Good corrosion resistance
- Good cold heading properties

Related Material Specifications

- CW508LC27200
- CZ108CuZn37

Corrosion Resistance

Good to excellent, Not suitable for use with hydrochloric acids, nitric acids, acetic acids, most ammonia or ammonia compounds

Availability

Sheet, Tube

Weldability

- Excellent for soldering and brazing.
- Oxyacetylene welding is good
- Gas shielding methods only fair

Chemical Composition (weight %)								
Weight (%)	Cu	Ni	Sn	Pb	AI	Zn	Other	
min.	62.0							
max.	64.0	0.30	0.10	0.10	0.05	Balance	0.20	

Mechanical Properties

	Proof Stress Tensile Strength Elongation √5.65 Hardness Vickers	Min. 110 MPa 300 MPa 15% 55 HV	Max. 500 MPa 550 MPa 180 HV	
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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 Redruth 01209 315 512 Smiths Chelmsford 01245 466 664 Smiths Redruth 01209 315 512 Smiths Cateshaad 0191 469 5428 Smiths Verwood 01302 324 347			
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 Cateshaad 0191 469 5428 Smiths Verwood 01302 824 347	Quality & Testing:		
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