



THAMES STOCKHOLDERS

CZ126 (CW707R) ARSENICAL BRASS ALLOY

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Product Overview

Arsenical brass contains small amounts of arsenic, and its inclusion significantly improves corrosion resistance in water environments. CZ126 (CW707R) is our arsenical brass product.

While water corrosion resistance is improved because arsenic acts as an inhibitor, the material is almost identical to typical brass alloys. CZ126 offers good corrosion resistance to a broad range of chemicals. Other attractive product characteristics include good malleability, formability and strength.

We stock CZ126 tubes which are highly suitable for use in heat exchangers.

Key Features

- Improved corrosion resistance
- High ductility
- High strength
- Good formability

Applications

- Heat exchanger tubes
- Steam turbines
- Subsea applications
- Condensers

Material Specifications: C26130, CuZn30As, CuZn30 (FR), CW707R

* Chemical Composition (weight, %)

| | Cu | Zn | As | Al | Fe | Mn | P | Pb | Sn | Others |
|------|-------|-----|------|------|------|------|------|------|------|--------|
| Min. | 69.00 | | 0.02 | | | | | | | |
| Max. | 71.00 | Rem | 0.06 | 0.02 | 0.05 | 0.10 | 0.01 | 0.07 | 0.05 | 0.30 |

* Properties as per BS EN 12451

* Mechanical Properties

| | |
|------------------|-------------|
| Tensile, R340 | |
| Tensile Strength | 340 MPa min |
| Proof Strength | 130 MPa min |
| Elongation | 45% min |
| Hardness, H075 | |
| Vickers | 75 - 105 HV |

* Properties as per BS EN 573-3



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