

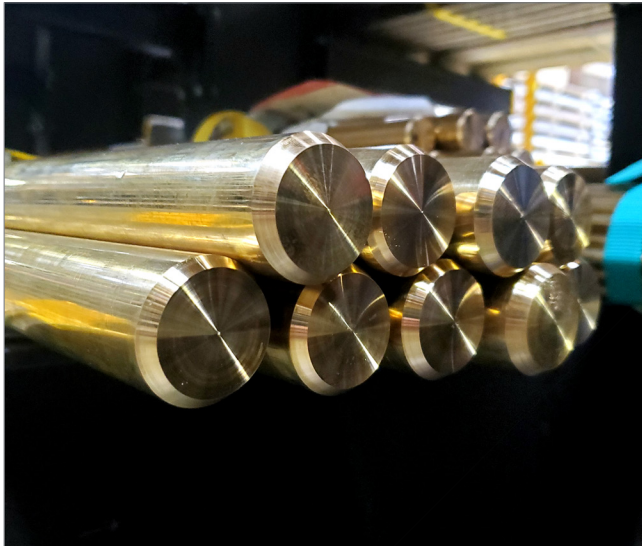


THAMES STOCKHOLDERS

CZ112 (CW712R)

BRASS ALLOY (Naval Brass)

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Product Overview

CZ112 (CW712R) - a naval brass that finds typical use in marine, above-sea and subsea applications.

Our brass alloy benefits from excellent corrosion resistance and overall strength and retains these properties at cryogenic temperatures. The critical inclusion of 1% tin in the alloying process enhances the material's corrosion resistance and mechanical properties. Our product primarily composes of 60% copper with 39% zinc. CZ112 alloy also benefits from greater strength when compared to traditional alpha brasses.

We stock CZ112 in sheet, plate, round bar & square bar.

Key Features

- Higher strength compared to alpha brasses
- Excellent corrosion resistance
- Property retention at cryogenic temperature
- Stronger, harder duplex structure

Applications

- General machined components
- Above-sea and subsea hardware
- Marine components
- Heat exchangers

Material Specifications: CuZn36Sn1Pb, CW712R, CZ106

* Chemical Composition (weight, %)

	Cu	Ni	Sn	Pb	Fe	Zn	Other
Min.	61.0		1.00	0.20			
Max.	63.0	0.20	1.50	0.60	0.10	Bal	0.20

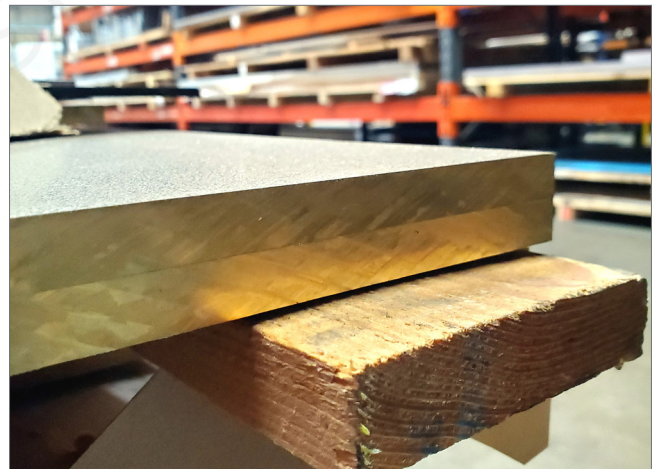
* Properties as per BS EN 12163

* Mechanical Properties

Tensile, R340
Tensile Strength 340 MPa, min
Proof Strength 160 MPa, min
Elongation 25 %min

Hardness, H080
Brinell 80 -120 HBW

* Properties as per BS EN 12163



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