

Copper Alloys

CW712R (CZ112) Bar

Datasheet Updated
05 December 2024

RANGE

Product Form	Size Range
Round Bar EN12163	3/16"- 4"

SPECIFICATIONS

Commercial	CZ112
EN	CW712R

Brass alloy with the addition of tin, used in a wide range of marine and subsea applications.

CHEMICAL COMPOSITION

EN 12163
CW712R Brass Rod

Element	% Present
Copper (Cu)	61.00 - 63.00
Tin (Sn)	1.00 - 1.50
Lead (Pb)	0.20 - 0.60
Iron (Fe)	0.00 - 0.10
Nickel (Ni)	0.00 - 0.20
Others (Total)	0.00 - 0.20
Zinc (Zn)	Balance

ALLOY DESIGNATIONS

CZ112/CW712R corresponds to the following designation **but may not be a direct equivalent**:

- CuZn36Sn1Pb

SUPPLIED FORMS

- Bar

APPLICATIONS

- Heat exchanger tubeplates
- Marine components
- Fasteners in corrosion resistant applications
- High strength cold headed products
- Hardware for subsea applications
- General machined components

CHARACTERISTICS

- Very good corrosion resistance in marine environments
- Excellent hot formability
- Good strength
- Retention of properties at cryogenic temperatures

MECHANICAL PROPERTIES

EN 12163
Bar From 5mm to 60mm Dia.

Property	Value
Proof Stress	160-200 MPa
Tensile Strength	340-400 MPa
Hardness Brinell	80 - 135 HB
Elongation A	25 - 20 %

DISCLAIMER

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