







# **Copper Alloys**

# CW721R (CZ114) Bar

**Datasheet Updated** 05 December 2024

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

#### **SPECIFICATIONS** CZ114 Commercial CW721R **EN**

A high tensile brass often referred to as manganese bronze.

#### **CHEMICAL COMPOSITION**

### EN 12164 CW721R Brass

Element	% Present
Lead (Pb)	0.80 - 1.60
Tin (Sn)	0.20 - 1.00
Iron (Fe)	0.20 - 1.20
Aluminium (Al)	0.30 - 1.30
Copper (Cu)	57.00 - 59.00
Manganese (Mn)	0.80 - 1.80
Others (Total)	0.00 - 0.30
Nickel (Ni)	0.00 - 0.30
Zinc (Zn)	Balance

### **ALLOY DESIGNATIONS**

CW721R/CZ114 brass corresponds to the following designations but may not be a direct equivalent:

- UNS C67500
- CZ114 is also sometimes called manganese bronze

#### **SUPPLIED FORMS**

Bar

EMAIL: sales@rblimited.co.uk WEB: www.rightonblackburns.co.uk Copyright © 2024 Righton and Blackburns Limited. All rights reserved.

APPLICATIONS
Architectural applications
High strength components
• Valves
Valve stems
Fittings
Marine fittings
• Fasteners
• Gears
Transmission components
Safety tools

CHARACTERISTICS
High strength levels
Good corrosion resistance
Non sparking
Excellent weldability
Excellent hot forming properties
High machinability rating

## **MECHANICAL PROPERTIES**

### EN 12164

Bar From 5mm to 40mm Dia.

Property	Value
Proof Stress	180-270 MPa
Tensile Strength	440-500 MPa
Hardness Brinell	100-140 Max HB
Elongation A	20-12 %









#### **DISCLAIMER**

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