

CZ121 (CW614N)

FREE-MACHINING BRASS ALLOY

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Key Features

- Highest machining rating of any copper alloy (100%)
- Free machining brass
- Good strength and corrosion resistance
- Lead content acts as a lubricant and chip breaker

Product Overview

CZ121 (CW614N) is a 3% lead content free-machining brass that offers the highest machinability of any copper alloy.

The lead content is dispersed finely throughout the material - this acts as a combination of lubricant and chip breaker, which gives the alloy its free machining properties. CZ121 has a machinability rating of 100% and is the standard by which all other copper-based alloys are compared and rated. The material can be easily soldered or brazed, combining good strength with corrosion resistance.

We offer stock availability in bar, hexagon, flat bar, square bar and hollow bar.

Applications

- Machined components, fasteners
- Extruded sections, window frames
- Switch blocks, plug pins

Material Specifications: 2.0401, C38500, CuZn39Pb3, CuZn40Pb3 (FR), CW614N, NF A51-105

* Chemical Composition (weight, %)

	Cu	Pb	Fe	Zn	AI	Ni	Sn	Total Impurities
Min.	57.0	2.50						
Max.	59.0	3.50	0.30	Rem	0.05	0.30	0.30	0.20
* Properties as per BS EN 12164								

* Mechanical Properties

Tensile, R360 Tensile Strength Proof Strength Elongation

350 MPa max 20% min

360 MPa min

Hardness, H090 Brinell

90 - 125 HBW

* Properties as per BS EN 12164



Thames Stockholders

Unit 5W. Woodall Road, Redburn Industrial Estate Ponders End, Enfield, Middlesex EN3 4LQ

Tel: +44 (0)20 8805 3282







sales@thamesstock.com



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