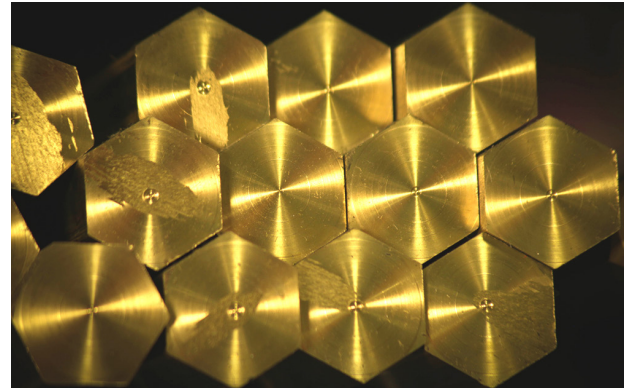


CZ121 (CW614N)

FREE MACHINING BRASS

PRODUCT DESCRIPTION

Offering the highest machinability of any copper alloy, CZ121 a 3% lead content brass which is classed as free machining. 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 and combines good strength with corrosion resistance.



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

APPLICATIONS

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

AVAILABILITY

Bar, hexagon, flat bar, square bar and hollow bar

CHEMICAL COMPOSITION (weight %)

	Cu	Pb	Fe	Zn	Total Imps
Min	56.5	2.5	0.0	Rem	0.0
Max	58.5	3.5	0.3	Rem	0.7 max

CORROSION RESISTANCE

High resistance to corrosion

MATERIAL SPECIFICATIONS

C38500 | CW614N | BS2874 | 2.0401
NF A51-105 | CuZn39Pb3 | CuZn40Pb3 (FR)

WELDABILITY

Excellent for soldering, good for brazing.
Oxy-acetylene, gas-shielded arc and resistance welding - not recommended.

MECHANICAL PROPERTIES

Tensile Strength (MPa)	360 - 580
Elongation %	15 - 25