

CW614N Brass Rods Brass Alloy Specifications

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Chemical Element	% Present
Copper (Cu)	58.00 max
Lead (Pb)	3.00 max
Zinc (Zn)	Balance

Physical Property	Value
Density	8.47 g/cm ³
Melting Point	875 °C
Thermal Expansion	20.9 x10 ⁻⁶ /K
Modulus of Elasticity	97 GPa
Thermal Conductivity	123 W/m.K
Electrical Resistivity	0.062 x10 ⁻⁶ Ω .m

Mechanical Property	Value
Proof Stress	150-420 MPa
Tensile Strength	360-580 MPa
Elongation	25-5 %
Hardness Vickers	100 to 160 HV

Brasses are alloys of Copper and Zinc. They may also contain small amounts of other alloying elements to impart advantageous properties. Brasses have high corrosion resistance and high tensile strength. They are also suited to fabrication by hot forging. Free machining grades of brass set the standard for machining, by which other metals are compared.

Brasses are divided into two classes. The alpha alloys, with less than 37% Zinc, and the alpha/beta alloys with 37-45% Zinc. Alpha alloys are ductile and can be cold worked. Alpha/beta or duplex alloys have limited cold ductility and are harder and stronger. CZ121 / CW614N is an alpha/beta alloy.

Brass alloy CZ121 / CW614N is used for machining. It has Lead added to the composition to improve machinability. The Lead remains insoluble in the microstructure of the brass and the soft particles act as chip breakers.

Applications - CZ121/CW614N is typically used in:

High speed machined components

Architectural extrusions

CW614N Brass Rods Brass Alloy Specifications Locks

Hinges

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