



Adinath

Create, Enhance & Sustain

CZ114:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

Cz114 equivalent to CW721R is a standard high tensile brass stronger than conventional brass. It comes with added Aluminium which improves its mechanical properties as well as brighter finish. The addition of Tin and Manganese improves its resistance to corrosion in marine and mildly acidic environments, whereas the added Iron content acts as a grain refiner. CW721R offers a reasonable machinability, but good hot forming capability which makes it suitable for Valves, Marine and Architectural components.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb	Sn	Oi
Min (%)	56.50	-	0.20	0.50	Balance	0.50	0.20	-
Max (%)	58.50	1.50	1.20	2.00		1.50	1.00	0.50

Note: Ni includes Co; Cu+ named elements >= 99.5%; Unless otherwise noted, single values represent maximums.

SHAPE



SOLID ROUND BARS

Size Range :
Dia 10 mm up to 120 mm.



SOLID RECTANGLE BARS

Size Range :
A/F 10 x 12 mm up to 100 x 50 mm.



SOLID HEX BARS

Size Range :
A/F 10 mm up to 100 mm



HOLLOW BARS

Outer Diameter : In Round, Hex & Square.
Size Range : 30 mm up to 120 mm.
Inner Diameter : Round
Size Range : 20 mm up to 80 mm.



SOLID SQUARE BARS

Size Range :
A/F 10 mm up to 90 mm.



PROFILES & SECTIONS

As per Customers' Drawing



BAR LENGTH

Length : Up to 4 Meters.
Delivery Condition : As Extruded or Cold Drawn.

STRAIGHT KNURLING



CROSS KNURLING



Straight Knurling & Cross Knurling will be available upon shape & size Feasibility of Brass Rod

CZ114:HIGH TENSILE BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
4 to 18 Inclusive		460	270	12	-
Over 18 to 40 Inclusive		440	250	15	-
Over 40 to 75 Inclusive		440	210	18	-
HEX (A/F)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
4 to 18 Inclusive		460	270	12	-
Over 18 to 40 Inclusive		440	250	15	-
Over 40 Inclusive		440	210	18	-
Square (A/F)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
4 to 18 Inclusive		460	270	12	-
Over 18 to 40 Inclusive		440	250	15	-
Over 40 to 60 Inclusive		440	210	18	-
Rectangle					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
Thickness	4 to 18 Inclusive	460	270	12	-
	Over 18 to 40 Inclusive	440	250	15	-
	Over 40 to 50 Inclusive	440	210	18	-

PACKING



-  PVC Pipe Packing for Small Diameter Rods.
-  Hessian Cloth Packing.
-  Wooden Box Packing as per Customer requirements.

CZ114:HIGH TENSILE BRASS



FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Good	30

TYPICAL USES

Product Category	Product
Automotive & Hydraulic	Gas Valves and Fittings, Fasteners, Pump Trim, Gears, Locks, Heavy-Duty Electrical Connectors, Transmission Components, Safety Tools and Decorative Metalwork, Marine Hardware.

VALUE ADDED SERVICES

AEPL manufactures and supplies Copper Alloys Extruded Bars to Domestic as well as International Markets. Our customer base has a key advantage since our Foundries, Laboratories, Extrusion Mill, Shell Mouldings and CNC Machine shop are all located on a single site, which eliminates waste and allows excellent quality control at each stage. Our ability to reclaim swarf and machined chips allows us to offer competitive pricing for the parts that we either extrude or cast.

Casting Range



 25 Grams to 10 Kgs

Forging Sizes



 50 Grams to 6 Kgs

Machining Sizes



 1 mm to 200 mm

CONNECT WITH US Adinath Extrusion Pvt. Ltd.

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