



# Adinath

Create, Enhance & Sustain

## CW721R:HIGH TENSILE BRASS

### Specification Sheet

#### DESCRIPTION

CW721R equivalent to CZ114 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	Ni	Mn	Zn	Pb	Sn	Oi
Min (%)	57.00	0.30	0.20	-	0.80	Balance	0.80	0.20	-
Max (%)	59.00	1.30	1.20	0.30	1.80		1.60	1.00	0.30

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 HEX BARS

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



##### SOLID SQUARE BARS

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



##### SOLID RECTANGLE BARS

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



##### 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

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## MECHANICAL PROPERTIES

Round (Dia)				
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)
40 to 75 Inclusive	440	180	20	-
HEX (A/F)				
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)
40 to 60 Inclusive	440	180	20	-
Square (A/F)				
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)
40 to 60 Inclusive	440	180	20	-
Rectangle				
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)
40 to 60 Inclusive	440	180	20	-

## PACKING



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

## FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Good	100

## TYPICAL USES

Product Category	Product
Industrial	Architectural applications, High strength components, Valves, Valve stems, Fittings, Marine fittings.

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## 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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