



**Adinath**  
Create, Enhance & Sustain

# CW710R / CuZn35Ni3Mn2AlPb:HIGH TENSILE BRASS

## Specification Sheet

### DESCRIPTION

CW710R is a High Tensile Brass with additions of Aluminium, Nickel, Manganese and Zinc. The addition of these elements improves the mechanical properties of the alloy as compared to other normal brasses. CW710R has good corrosion resistance and can be used in saltwater applications.



### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Oi
Min (%)	58.00	0.30	-	2.00	1.50	Balance	0.20	-	-	-
Max (%)	60.00	1.30	0.50	3.00	2.50		0.80	0.50	0.10	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 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)
8 to 75 Inclusive	-	-	=	120 - 200
HEX (A/F)				
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)
8 to 60 Inclusive	-	-	-	120 - 200
Square (A/F)				
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)
8 to 60 Inclusive	-	-	-	120 - 200
Rectangle				
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)
Thickness	8 to 50 Inclusive	-	-	120 - 200

## PACKING



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

## FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Fair	Fair	50

## TYPICAL USES

Product Category	Product
Builders Hardware	Brackets

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

## 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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