



# Adinath

Create, Enhance & Sustain

## C-27200:LEAD FREE BRASS

### Specification Sheet

#### DESCRIPTION

C27200 is the major brass alloy for the cold forming process. Even though brasses with lower Zinc content have better cold forming properties, C27200 is the most used alloy. Reasons for this are on the one hand economical due to lower price of Zinc compared to Copper, on the other hand the forming properties of this alloy meet the demand of many applications.



#### CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Oi
Min (%)	62.00	-	Balance	-	-
Max (%)	65.00	0.07		0.07	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 8 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 (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 2 to 75 Inclusive	385 - 455	-	-	60 - 76
HEX (A/F)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 3 to 70 Inclusive	385 - 455	-	-	60 - 76
Square (A/F)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 3 to 60 Inclusive	385 - 455	-	-	60 - 76

## PACKING



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

## TYPICAL USES

Product Category	Product
Fasteners	Fasteners.
Industrial	Cold Headed Parts, Heat Exchanger Shells, Pump Cylinder Liners.

## 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.

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## 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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