



# Adinath

Create, Enhance & Sustain

## C-27450:LEAD FREE BRASS

### Specification Sheet

#### DESCRIPTION

UNS C27450 yellow brass has a copper content of not less than 62%, CuZn37 is the major brass alloy for the cold forming process. Even though brasses with lower Zinc content have better cold forming properties, CuZn37 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 (%)	60.00	-	Balance	-	-
Max (%)	65.00	0.35		0.25	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 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



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

# C-27450:LEAD FREE BRASS



## MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Over 2 to 12 Inclusive	365	230	10	-	
Over 12 to 25 Inclusive	330	205	13	-	
Over 25 to 75 Inclusive	295	195	15	-	
Hex (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Over 3 to 12 Inclusive	365	230	10	-	
Over 12 to 25 Inclusive	330	205	13	-	
Over 25 to 70 Inclusive	295	195	15	-	
Square (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Over 3 to 12 Inclusive	345	170	10	-	
Over 12 to 25 Inclusive	310	115	20	-	
Over 25 to 50 Inclusive	275	105	20	-	
Rectangle					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Thickness	Over 3 to 12 Inclusive	345	170	10	-
	Over 12 to 25 Inclusive	310	115	20	-
	Over 25 to 50 Inclusive	275	105	20	-

## PACKING



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

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## FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Excellent	30

Product Category	Product
Fasteners	Eyelets, Fasteners, Grommets, Pins, Rivets, Screws.
Industrial	Bead Chain, Chain, Springs.

## 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



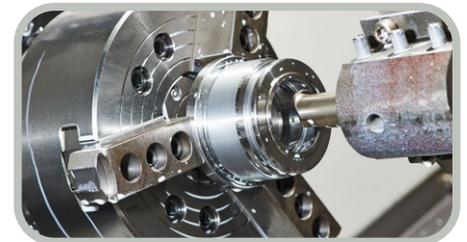
 25 Grams to 10 Kgs

### 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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