



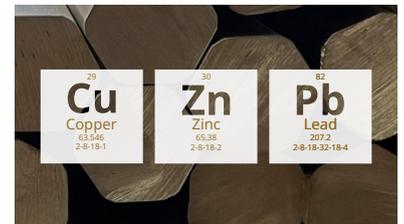
# Adinath

Create, Enhance & Sustain

## C-35000:LEADED BRASS Specification Sheet

### DESCRIPTION

Leaded brasses set the standard by which the machinability of other materials is judged and is also available in a very wide variety of product forms and sizes to allow minimum machining to finished dimensions. Leaded brass is used for its excellent machinability, good strength and atmospheric corrosion resistance. While all brasses are intrinsically easy to machine, the addition of small amounts of lead to brasses further improves this property.



### CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Oi
Min (%)	60.00	-	Balance	0.80	-
Max (%)	63.00	0.15		2.00	0.40

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-35000:LEADED BRASS



## MECHANICAL PROPERTIES

Round (Dia)				
Range (mm)	UTS (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 2 to 12 Inclusive	395 - 555	170	7	60 - 80
Over 12 to 25 Inclusive	380 - 485	170	10	50 - 75
Over 25 to 75 Inclusive	345 - 425	140	15	40 - 70
Hex (A/F)				
Range (mm)	UTS (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 3 to 12 Inclusive	395 - 555	170	7	60 - 80
Over 12 to 25 Inclusive	380 - 485	170	10	50 - 75
Over 25 to 70 Inclusive	345 - 425	140	15	40 - 70
Square (A/F)				
Range (mm)	UTS (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 3 to 12 Inclusive	395 - 555	170	7	60 - 80
Over 12 to 25 Inclusive	380 - 485	170	10	50 - 75
Over 25 to 60 Inclusive	345 - 425	140	15	40 - 70

## 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	70

# C-35000:LEADED BRASS



## TYPICAL USES

Product Category	Product
Builders Hardware	Hinges.
Consumer	Keys, Lock Parts, Lock Tumblers.
Fasteners	Nuts, Washers.
Industrial	Bearing Cages, Book Dies, Clock Plates, Engraving Plates, Gears, Hose Couplings, Meter Parts, Strike Plates, Templates, Type Characters, Wear Plates.
Plumbing	Sink Strainers.

## 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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