



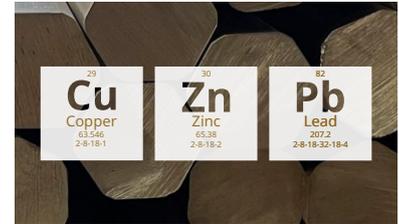
**Adinath**  
Create, Enhance & Sustain

## IS:319 GRADE-III:LEADED BRASS

### Specification Sheet

#### DESCRIPTION

IS 319 Grade III has almost the same chemical properties as UNS C36000 but with a lesser percentage of Lead. As compared to the other grades, the capacity for being cold work for this grade is Fair. It is ideal for Hot formation and has excellent machinability.



#### CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Oi
Min (%)	60.00	-	Balance	0.50	-
Max (%)	63.00	0.20		1.50	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

# IS:319 GRADE-III:LEADED BRASS



## MECHANICAL PROPERTIES

Round (Dia)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 6 to 12 Inclusive	355	-	8	-
Over 12 to 25 Inclusive	345	-	12	-
Over 25 to 50 Inclusive	305	-	22	-
Over 50 to 75 Inclusive	285	-	27	-
Hex (A/F)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 6 to 12 Inclusive	355	-	8	-
Over 12 to 25 Inclusive	345	-	12	-
Over 25 to 50 Inclusive	305	-	22	-
Over 50 to 75 Inclusive	285	-	27	-
Square (A/F)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 6 to 12 Inclusive	355	-	8	-
Over 12 to 25 Inclusive	345	-	12	-
Over 25 to 50 Inclusive	305	-	22	-
Over 50 to 75 Inclusive	285	-	27	-

## 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	80

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## TYPICAL USES

Product Category	Product
Industrial	Precision Components Machining with Riveting operation.

## 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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