



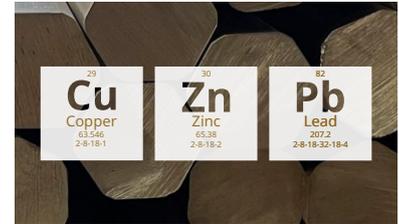
**Adinath**  
Create, Enhance & Sustain

## C-36300:LEADED BRASS

### Specification Sheet

#### DESCRIPTION

C36300 is a low leaded brass alloy with certain additions of Phosphorus. It has excellent machinability and good hot forming capacity. The addition of Phosphorus improves resistance to dezincification which makes it an ideal choice in making components for potable water products.



#### CHEMICAL COMPOSITION

| Element | Cu    | Fe   | Zn      | Pb   | P    | Oi   |
|---------|-------|------|---------|------|------|------|
| Min (%) | 61.00 | -    | Balance | 0.25 | 0.04 | -    |
| Max (%) | 63.00 | 0.15 |         | 0.70 | 0.15 | 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.



**CROSS KNURLING**



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

# C-36300:LEADED BRASS



## MECHANICAL PROPERTIES

| Round (Dia)             |                         |              |                    |                |   |
|-------------------------|-------------------------|--------------|--------------------|----------------|---|
| Range (mm)              | UTS Min (MPA)           | PS Min (MPA) | Elongation Min (%) | Hardness (HRB) |   |
| Over 2 to 12 Inclusive  | 430                     | 190          | 10                 | -              |   |
| Over 12 to 25 Inclusive | 380                     | 180          | 12                 | -              |   |
| Over 25 to 50 Inclusive | 330                     | 165          | 20                 | -              |   |
| Over 50 to 75 Inclusive | 310                     | 135          | 25                 | -              |   |
| Hex (A/F)               |                         |              |                    |                |   |
| Range (mm)              | UTS Min (MPA)           | PS Min (MPA) | Elongation Min (%) | Hardness (HRB) |   |
| Over 3 to 12 Inclusive  | 430                     | 190          | 10                 | -              |   |
| Over 12 to 25 Inclusive | 380                     | 180          | 12                 | -              |   |
| Over 25 to 50 Inclusive | 330                     | 165          | 20                 | -              |   |
| Over 50 to 70 Inclusive | 310                     | 135          | 25                 | -              |   |
| Square (A/F)            |                         |              |                    |                |   |
| Range (mm)              | UTS Min (MPA)           | PS Min (MPA) | Elongation Min (%) | Hardness (HRB) |   |
| Over 3 to 12 Inclusive  | 430                     | 190          | 10                 | -              |   |
| Over 12 to 25 Inclusive | 380                     | 180          | 12                 | -              |   |
| Over 25 to 50 Inclusive | 330                     | 165          | 20                 | -              |   |
| Over 50 to 70 Inclusive | 310                     | 135          | 25                 | -              |   |
| Rectangle               |                         |              |                    |                |   |
| Range (mm)              | UTS Min (MPA)           | PS Min (MPA) | Elongation Min (%) | Hardness (HRB) |   |
| Thickness               | Over 3 to 12 Inclusive  | 430          | 190                | 10             | - |
|                         | Over 12 to 25 Inclusive | 380          | 180                | 12             | - |
|                         | Over 25 to 50 Inclusive | 330          | 165                | 20             | - |

## PACKING



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

# C-36300:LEADED BRASS



## FABRICATION PROPERTIES

| Soldering | Brazing | Machinability Rating |
|-----------|---------|----------------------|
| Excellent | Good    | 80                   |

## TYPICAL USES

| Product Category | Product   |
|------------------|---|
| Plumbing         | Faucet Stems, Plumbers' Brass Goods, Faucet Seats, Plumbing Fittings. |

## 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.

📍 Plot No. 4051-4055,  
Bhagwan Mahavir Swami Marg,  
G.I.D.C., Phase-III, Dared,  
Jamnagar - 361004, Gujarat, India.

☎ +91 7600 55 9243 📞 +91 288 2730868  
✉ sales@adinathextrusion.com,  
marketing@adinathextrusion.com  
🌐 www.adinathextrusion.com

