



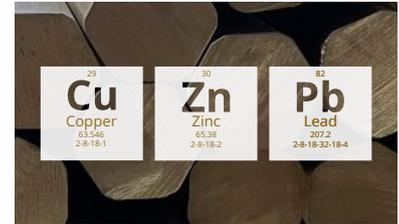
Adinath
Create, Enhance & Sustain

CuZn39Pb3:FREE MACHINING BRASS

Specification Sheet

DESCRIPTION

CuZn39Pb3 alloy is a free machining alloy with 3 % Lead content where Lead acts as a lubricant and chip breaker to give the alloy its free machining characteristics. It offers good corrosion resistance, high strength and has excellent hot formability.



CHEMICAL COMPOSITION

| Element | Cu | Al | Fe | Ni | Zn | Pb | Sn | Oi |
|---------|-------|------|------|------|---------|------|------|------|
| Min (%) | 57.00 | - | - | - | Balance | 2.50 | - | - |
| Max (%) | 59.00 | 0.05 | 0.30 | 0.30 | | 3.50 | 0.30 | 0.20 |

Note: Ni includes Co; Cu+ named elements >= 99.5%; Unless otherwise noted, single values represent maximums.

SHAPE



SOLID ROUND BARS
Size Range :
Dia 5 mm up to 120 mm



SOLID HEX BARS
Size Range :
A/F 5 mm up to 100 mm



SOLID SQUARE BARS
Size Range :
A/F 5 mm up to 90 mm



SOLID RECTANGLE BARS
Size Range :
A/F 6 x 8 mm up to 100 x 50 mm



HOLLOW BARS
Outer Diameter : In Round, Hex & Square
Size Range : 24 mm up to 120 mm
Inner Diameter : Round
Size Range : 12 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

CuZn39Pb3:FREE MACHINING BRASS



MECHANICAL PROPERTIES

| UTS Min (MPA) | PS Min (MPA) | Elongation Min (%) | Hardness (HRB) |
|---------------|--------------|--------------------|----------------|
| 360 to 580 | 230 to 350 | 10 to 25 | 52 to 84 |

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 | 100 |

TYPICAL USES

| Product Category | Product |
|-------------------|---|
| Automotive | Fluid Connectors, Sensor Bodies, Thermostat Parts, Threaded Inserts for Plastic. |
| Builders Hardware | Fittings, Hardware, Lock Bodies. |
| Consumer | Hot Combs (to Straighten Hair). |
| Fasteners | Bolt, Nuts, Screws. |
| Industrial | Adapters, Automatic Screw Machine Parts, Faucet Components, Fluid Connectors, Gauges, Gears, Nozzles, Pinions, Pneumatic Fittings, Screw Machine Products, Unions, Valve Seats, Valve Trim. |
| Plumbing | Faucet Seats, Faucet Stems, Plumbers' Brass Goods, 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.

CuZn39Pb3:FREE MACHINING BRASS



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

