



Adinath

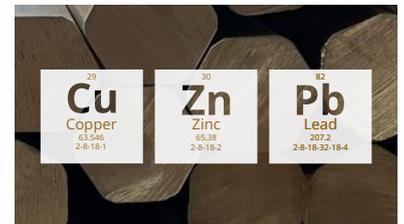
Create, Enhance & Sustain

CZ121PB3:FREE MACHINING BRASS

Specification Sheet

DESCRIPTION

CZ121PB3 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 and high strength and has excellent hot formability.



CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Oi
Min (%)	56.50	-	Balance	2.50	-
Max (%)	58.50	0.30		3.50	0.70

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



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

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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	90

TYPICAL USES

Product Category	Product
Builders Hardware	Fittings, Hardware, Lock Bodies.
Consumer	Hot Combs (to Straighten Hair).
Industrial	Adapters, Automatic Screw Machine Parts, Faucet Components, Fluid Connectors, Gauges, Gears, Nozzles, Pinions, Pneumatic Fittings, Screw Machine Products, Unions, Valve Seats, Valve Trim.

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.

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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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