



Adinath
Create, Enhance & Sustain

CuZn42:LEAD FREE BRASS

Specification Sheet

DESCRIPTION

CuZn42 is a lead free material which is however quite suitable for machining due to its structural constitution. CuZn42 can be used as a cost-effective replacement for conventional lead-containing machining brass provided that it must not meet high requirements as regards mechanical properties and corrosion resistance.



CHEMICAL COMPOSITION

Element	Cu	Fe	Ni	Sn	Zn	Si	Mn
Min (%)	57.00	0.10	0.10	0.10	Balance	-	-
Max (%)	58.50	0.50	0.50	0.50		0.10	0.10

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

SHAPE



SOLID ROUND BARS
Size Range :
Dia 7 mm up to 120 mm



SOLID HEX BARS
Size Range :
A/F 7 mm up to 100 mm



SOLID SQUARE BARS
Size Range :
A/F 7 mm up to 90 mm



SOLID RECTANGLE BARS
Size Range :
A/F 7 x 10 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 will be available upon shape & size Feasibility of Brass Rod

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MECHANICAL PROPERTIES

UTS MIN (N/MM ²)	PS MIN (MPA)	ELONGATION MIN (%)	HARDNESS (HRB)
430	220	10	-

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	Excellent	60

TYPICAL USES

Product Category	Product
Industrial	Automatic Screw Machine Parts.

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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