



Adinath

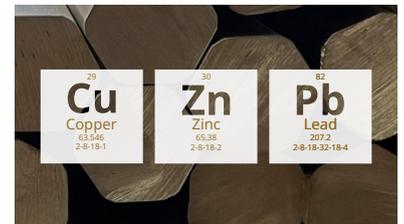
Create, Enhance & Sustain

C36000:FREE MACHINING BRASS

Specification Sheet

DESCRIPTION

C36000 Brass or CDA 360 Brass is one of the most popular copper alloys used today. With a Machinability rating of 100%, it sets the standard against which all other alloys are measured. Good strength and ductility are combined with excellent corrosion resistance and superb machinability. C36000 alloy is frequently used in high machining applications that require drilling, turning and milling due to its excellent Machinability.



CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	OI
Min (%)	60.00	-	Balance	2.50	-
Max (%)	63.00	0.35		3.00	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 10 mm to 120 mm



SOLID HEX BARS

Size Range :
A/F 10 mm to 100 mm



SOLID SQUARE BARS

Size Range :
A/F 10 mm to 90 mm



SOLID RECTANGLE BARS

Size Range :
A/F 10 x 12 mm to 100 x 50 mm



HOLLOW BARS

Outer Diameter : In Round, Hex & Square.

Size Range : 30 mm to 120 mm

Inner Diameter : Round

Size Range : 20 mm 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

Round (Dia)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 4 to 12 Inclusive		395	170	7	-
Over 12 to 25 Inclusive		380	170	10	60 to 80
Over 25 to 50 Inclusive		345	140	15	55 to 75
Over 50 to 75 Inclusive		310	105	20	45 to 70
Hex (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 4 to 12 Inclusive		395	170	7	-
Over 12 to 25 Inclusive		380	170	10	55 to 80
Over 25 to 50 Inclusive		345	140	15	45 to 80
Over 50 to 75 Inclusive		310	105	20	40 to 65
Square (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 4 to 12 Inclusive		395	170	7	-
Over 12 to 25 Inclusive		380	170	10	55 to 80
Over 25 to 50 Inclusive		345	140	15	45 to 80
Over 50 to 60 Inclusive		310	105	20	40 to 65
Rectangle					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Thickness	Over 3 to 12 Inclusive	345	170	10	45 to 85
Width	Over 4 to 25 Inclusive				
Thickness	Over 3 to 12 Inclusive	310	115	15	35 to 70
Width	Over 25 to 70 Inclusive				
Thickness	Over 12 to 50 Inclusive	310	115	15	40 to 80
Width	Over 4 to 50 Inclusive				
Thickness	Over 12 to 50 Inclusive	275	105	20	35 to 70
Width	Over 50 to 70 Inclusive				

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

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



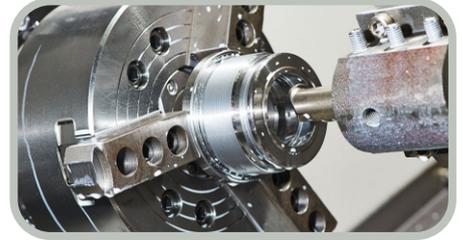
📍 25 Grams to 10 Kgs

Forging Sizes



📍 50 Grams to 6 Kgs

Machining Sizes



📍 1 mm to 200 mm

CONNECT WITH US **Adinath Extrusion Pvt. Ltd.**

📍 Plot No. 4051-4055,
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