



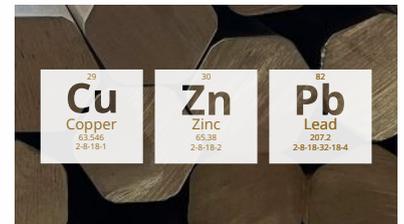
**Adinath**  
Create, Enhance & Sustain

## C38500:FREE MACHINING BRASS

### Specification Sheet

#### DESCRIPTION

Free Cutting Brass is commonly known as leaded brass which contains 56 to 63 % of Copper, 2 to 3.50 % Lead, and balance Zinc. Free Machining Brass refers to the alloys "Machinability". Machinability is a catch term that measures the ease with which a metal can be drilled, turned, cut or machined. Free machining brass sets the standard by which the machinability of other alloys is measured.



#### CHEMICAL COMPOSITION

Element	Cu	Zn	Pb	Oi
Min (%)	56.00	Balance	2.00	-
Max (%)	59.00		3.50	0.75

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 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.

##### STRAIGHT KNURLING



##### CROSS KNURLING



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

# C38500:FREE MACHINING BRASS



## MECHANICAL PROPERTIES

Round (Dia)				
Range (mm)	UTS Min (KG/MM <sup>2</sup> )	PS Min (KSI)	Elongation Min (%)	Hardness (HRB)
Over 2 to 75 Inclusive	39	-	12	-
Hex (A/F)				
Range (mm)	UTS Min (KG/MM <sup>2</sup> )	PS Min (KSI)	Elongation Min (%)	Hardness (HRB)
Over 3 to 70 Inclusive	39	-	12	-
Square (A/F)				
Range (mm)	UTS Min (KG/MM <sup>2</sup> )	PS Min (KSI)	Elongation Min (%)	Hardness (HRB)
Over 3 to 60 Inclusive	39	-	12	-
Rectangle				
Range (mm)	UTS Min (KG/MM <sup>2</sup> )	PS Min (KSI)	Elongation Min (%)	Hardness (HRB)
Over 3 to 50 Inclusive	39	-	12	-

## 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
Auto motive	Sensor Bodies, Thermostat Parts, Fluid Connectors, Threaded Inserts for Plastic.

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<b>Builders Hardware</b>	Lock Bodies, Fittings, Hardware.
<b>Consumer</b>	Hot Combs (to Straighten Hair), Fasteners, Screws, Nuts, Bolts.
<b>Industrial</b>	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.
<b>Plumbing</b>	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



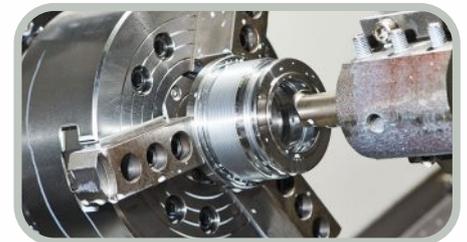
25 Grams to 10 Kgs

### Forging Sizes



50 Grams to 6 Kgs

### Machining Sizes



1 mm to 200 mm

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

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