



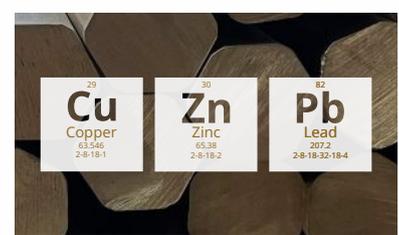
Adinath
Create, Enhance & Sustain

C3604: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	Fe	Zn	Pb	Sn + Fe
Min (%)	57.00	-	Balance	1.80	-
Max (%)	61.00	0.50		3.70	1.20

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

C3604:FREE MACHINING BRASS



MECHANICAL PROPERTIES

Round (Dia)				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
Over 4 to 75 Inclusive	335	-	-	80 Min.
Hex (A/F)				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
Over 3 to 70 Inclusive	335	-	-	80 Min.
Square (A/F)				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
Over 3 to 60 Inclusive	335	-	-	80 Min.
Rectangle				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
Over 3 to 50 Inclusive	335	-	-	80 Min.

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
Automotive	Fluid Connectors, Sensor Bodies, Thermostat Parts, Threaded Inserts for Plastic.

C3604:FREE MACHINING BRASS



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.

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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