



Adinath

Create, Enhance & Sustain

C-86400:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

C86400 is known as Leaded Manganese Bronze or High Strength Yellow Brass. It is a Copper cast alloy with additions of Iron, Aluminium and Manganese which provides additional strength and corrosion resistance. Lead is mixed in the alloy to increase the machinability.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn
Min (%)	56.00	0.50	0.40	-	0.10	34.00	0.50	0.50
Max (%)	62.00	1.50	2.00	1.00	1.50	42.00	1.50	1.50

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 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

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MECHANICAL PROPERTIES

Round (Dia)			
UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
448	172	20	90

PACKING



-  PVC Pipe Packing for Small Diameter Rods.
-  Hessian Cloth Packing.
-  Wooden Box Packing as per Customer requirements.

FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Fair	Fair	65

TYPICAL USES

Product Category	Product
Builders Hardware	Door hardware for Prison, Window Hardware.
Consumer	Musical Instruments, Piano Keys.
Electrical	Electrical Components, Electrical Equipment, Switches.
Fasteners	Screw Down Nuts.
Industrial	Bearing Cage Blanks, Bearings, Brackets, Bushings, Cams, Fittings, Lever Arms, Light Duty Gears, Machinery Parts, Propellers, Pump Fixtures, Roller Bearings, Valve Stems.
Marine	Boat Parts, Covers for Marine Hardware, Marine Fittings, Marine Hardware.
Plumbing	Fixtures.

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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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