



Adinath
Create, Enhance & Sustain

C-86300:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

C86300 Manganese Bronze is a tough and corrosion resistant alloy and can handle heavy loads with slow speeds applications that require a combination of outstanding wear characteristics and high bearing strength. Despite its high strength characteristics, this alloy is non-heat treatable and needs reliable lubrication. C86300 Manganese Bronze alloy offers other important benefits such as good machinability, good corrosion, erosion, and impact resistance, and the ability to thrive in seawater.

Cu Copper 63.546 2-8-18-1	Al Aluminium 26.982 2-8-3	Mn Manganese 54.938 2-8-19-2
Fe Iron 55.845 2-8-14-2	Pb Lead 207.2 2-8-18-30-18-4	Zn Zinc 65.38 2-8-18-2

CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn
Min (%)	60.00	5.00	2.00	-	2.50	22.00	-	-
Max (%)	66.00	7.50	4.00	1.00	5.00	28.00	0.20	0.20

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 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)
758	427	14	223

PACKING



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

FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Poor	Poor	8

TYPICAL USES

Product Category	Product
Builders Hardware	Brackets
Electrical	Electrical Components, Switches.
Fasteners	Screw Down Nuts.
Industrial	Bridge Pins, Bushings, Cams, Forming Dies for Wood Pulp Industry, Frames, Gears, Gib, High Strength Machine Parts, Hooks, Hydraulic Cylinder Parts, Large Valve Stems, Propellers, Slow Speed, Heavy Load Bearings, Struts, Wear Rings for Forming Dies for Wood Pulp Industry.
Marine	Boat Parts, Clamps, Covers for Marine Hardware, Marine Hardware, Rudders.

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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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