



Adinath

Create, Enhance & Sustain

C-67300:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

C67300 Manganese Bronze contains added amount of Silicon which makes it an ideal choice for high-load and low speed applications. It is also known as Manganese Silicon Bronze and has excellent wear characteristics and high bearing strength. C67300 has good machinability and capacity to be hot forged.

²⁹ Cu Copper 63.546 2-8-18-1	¹³ Al Aluminium 26.982 2-8-3	²⁵ Mn Manganese 54.938 2-8-19-2
²⁶ Fe Iron 55.845 2-8-14-2	⁸² Pb Lead 207.2 2-8-18-30-18-4	³⁰ Zn Zinc 65.38 2-8-18-2

CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si
Min (%)	58.00	-	-	-	2.00	Balance	0.40	-	0.50
Max (%)	63.00	0.25	0.50	0.25	3.50		3.00	0.30	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

C-67300:HIGH TENSILE BRASS



MECHANICAL PROPERTIES

Round (Dia)				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
4 to 25 Inclusive	450	275	12	70
Over 25 to 75 Inclusive	400	240	15	70
HEX (A/F)				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
4 to 25 Inclusive	450	275	12	70
Over 25 to 70 Inclusive	400	240	15	70
Square (A/F)				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
4 to 60 Inclusive	415	205	20	70
Rectangle				
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
4 to 60 Inclusive	415	205	20	70

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	70

C-67300:HIGH TENSILE BRASS



TYPICAL USES

Product Category	Product
Fasteners	Fasteners, Lead Screw Nuts.
Industrial	Bearings, Bearings, Pins, Bushings, Clutch Bearings, Drive Shafts, Gears and Cams, Idler Pins, Piston Heads, Propeller Shafts, Pump Parts, Seal Rings, Shaft Bushings, Sleeve Bearings, Spindles, Thrust Bearings, Wear Plates.
Marine	Hardware, Valve Seats.
Others	Connecting Rods.

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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