



# Adinath

Create, Enhance & Sustain

## C-67500:HIGH TENSILE BRASS

### Specification Sheet

#### DESCRIPTION

C67500 Manganese Bronze has excellent hot working characteristics. The addition of Iron and Tin in the alloy gives its good strength and improves the corrosion resistance.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb	Sn
Min (%)	57.00	-	0.80	0.05	Balance	-	0.50
Max (%)	60.00	0.25	2.00	0.50		0.20	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-67500:HIGH TENSILE BRASS



## MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
4 to 25 Inclusive	500	250	13	-	
Over 25 to 65 Inclusive	450	240	15	-	
Over 65 to 75 Inclusive	450	220	17	-	
Hex (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
4 to 25 Inclusive	500	250	13	-	
Over 25 to 65 Inclusive	450	240	15	-	
Over 65 to 75 Inclusive	450	220	17	-	
Square (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
4 to 25 Inclusive	500	250	13	-	
Over 25 to 60 Inclusive	450	240	15	-	
Rectangle					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Thickness	4 to 25 Inclusive	500	250	13	-
	Over 25 to 50 Inclusive	450	240	15	-

## 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	Excellent	30

# C-67500:HIGH TENSILE BRASS



Product Category	Product
Automotive	Clutch Disks, Pump Rods, Shafting.
Fasteners	Bolts.
Industrial	Aircraft Parts, Balls, Bushings, Valve Bodies.
Marine	Hardware.

## 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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