



**Adinath**  
Create, Enhance & Sustain

## IS:320 HT2:HIGH TENSILE BRASS

### Specification Sheet

#### DESCRIPTION

IS 320 HT2 is the Indian Standard Grade of High Tensile Brass. Unlike HT1, HT2 comes with added amount of Aluminium, which gives the alloy its high strength and hot working characteristics. These alloys are also referred as Manganese Bronze.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb	Sn	Oi
Min (%)	56.00	0.30	0.20	0.50	Balance	0.50	-	-
Max (%)	61.00	2.00	1.50	2.00		1.50	1.00	0.50

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

# IS:320 HT2:HIGH TENSILE BRASS



## MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)	
10 to 40 Inclusive	520	-	12	-	
Over 40 to 75 Inclusive	500	-	15	-	
HEX (A/F)					
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)	
40 to 70 Inclusive	500	-	15	-	
Square (A/F)					
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)	
40 to 60 Inclusive	500	-	15	-	
Rectangle					
Range (mm)	UTS Min (N/MM <sup>2</sup> )	PS Min (N/MM <sup>2</sup> )	Elongation Min (%)	Hardness (HRB)	
Thickness	10 to 40 Inclusive	520	-	12	-
	Over 40 to 50 Inclusive	500	-	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	Good	30

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## TYPICAL USES

Product Category	Product
Automotive & Hydraulic	Gas Valves and Fittings, Fasteners, Pump Trim, Gears, Locks, Heavy-Duty Electrical Connectors, Transmission Components, Safety Tools and Decorative Metalwork, 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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