



Adinath
Create, Enhance & Sustain

IS:320 HT1:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

IS 320 HT1 is the Indian Standard grade of High Tensile Brass. As compared to other High Tensile grades, HT1 has a maximum of 0.20% content of Aluminium which makes it good choice for Brazing. HT1 has a good capacity for hot forming.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb	Sn	Oi
Min (%)	56.00	-	0.20	0.25	Balance	0.20	0.20	-
Max (%)	60.00	0.20	1.25	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 HT1:HIGH TENSILE BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
2 to 40 Inclusive		480	-	12	-
Over 40 to 75 Inclusive		460	-	15	-
HEX (A/F)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
2 to 40 Inclusive		480	-	12	-
Over 40 to 70 Inclusive		460	-	15	-
Square (A/F)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
10 to 40 Inclusive		480	-	12	-
Over 40 to 60 Inclusive		460	-	15	-
Rectangle					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
Thickness	10 to 40 Inclusive	480	-	12	-

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	-

IS:320 HT1:HIGH TENSILE BRASS



TYPICAL USES

Product Category	Product
Industrial	Construction, Bridges, Petrochemical Industry, Ship Building, Engineering, General Structural Purposes, Offshore and Onshore Services.

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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