

Adinath

Create, Enhance & Sustain

6912 FHTB-2:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

Manganese Bronze comes from a family of High strength copper based alloys which includes Manganese as an alloying agent with additions of Iron, Aluminium, Zinc, Lead and sometimes Nickel or Silicon. It has exceptionally high strength as compared to normal brass and therefore commonly known as High Tensile Brass, High Tensile Manganese Bronze, High Strength Brass or Manganese Aluminium Bronze.

Cu Copper 63.546 2-6:18-1	Al Aluminium 26.982 2-6:3	Mn Manganese 54.938 2-6:13-2
Fe Iron 55.845 2-6:14-2	Pb Lead 207.2 2-6:18-32-18-4	Zn Zinc 65.38 2-6:18-2

CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb	Sn	Oi
Min (%)	56.00	0.30	0.30	0.50	Balance	0.50	0.20	-
Max (%)	61.00	2.00	1.25	2.00		1.50	0.80	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

6912 FHTB-2: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 75 Inclusive		460	180	12	-
HEX (A/F)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
3 to 70 Inclusive		460	180	12	-
Square (A/F)					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
3 to 60 Inclusive		460	180	12	-
Rectangle					
Range (mm)		UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)
Thickness	3 to 50 Inclusive	460	180	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	Good	30

TYPICAL USES

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

6912 FHTB-2:HIGH TENSILE BRASS



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



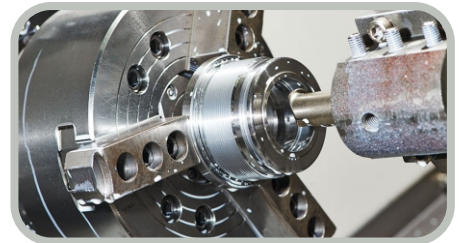
 25 Grams to 10 Kgs

Forging Sizes



 50 Grams to 6 Kgs

Machining Sizes



 1 mm to 200 mm

CONNECT WITH US Adinath Extrusion Pvt. Ltd.

 Plot No. 4051-4055,
Bhagwan Mahavir Swami Marg,
G.I.D.C., Phase-III, Dared,
Jamnagar - 361004, Gujarat, India.

 +91 7600 55 9243  +91 288 2730868
 sales@adinathextrusion.com,
marketing@adinathextrusion.com
 www.adinathextrusion.com

