



Adinath

Create, Enhance & Sustain

C-6782:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

C6782 Manganese Bronze alloy has good corrosion resistance properties. Additions of Manganese in the alloy makes it highly valuable for its excellent performance and reliable operations.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb
Min (%)	56.00	0.20	0.10	0.50	Balance	-
Max (%)	60.50	2.00	1.00	2.50		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

C-6782:HIGH TENSILE BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
4 to 50 Inclusive		420	240	15	-
HEX (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
4 to 50 Inclusive		420	240	15	-
Square (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
4 to 50 Inclusive		420	240	15	-
Rectangle					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Thickness	4 to 50 Inclusive	420	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	Fair	30

TYPICAL USES

Product Category	Product
Industrial	Gate Valve Stems, Valve Balls, Welding Rod.

C-6782: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.

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