



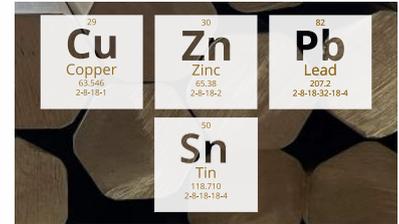
Adinath
Create, Enhance & Sustain

IS:291 GRADE-II:NAVAL BRASS

Specification Sheet

DESCRIPTION

IS 291 Grade II Naval Brass is defined as per the Bureau of Indian Standards. The presence of lead ensures ease in hot forging and machining.



CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Sn	Oi
Min (%)	59.00	-	Balance	0.50	0.50	-
Max (%)	62.00	0.10		1.00	1.00	0.20

Note: Ni includes Co; Cu+ named elements >= 99.5%; Unless otherwise noted, single values represent maximums.

SHAPE



SOLID ROUND BARS
Size Range :
Dia 7 mm up to 120 mm.



SOLID HEX BARS
Size Range :
A/F 7 mm up to 100 mm.



SOLID SQUARE BARS
Size Range :
A/F 7 mm up to 90 mm.



SOLID RECTANGLE BARS
Size Range :
A/F 7 x 10 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:291 GRADE-II:NAVAL BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Over 3 to 75 Inclusive	390	-	15		
HEX (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Over 3 to 65 Inclusive	390	-	15	-	
Square (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Over 3 to 60 Inclusive	390	-	15	-	
Rectangle					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Thickness	Over 3 to 50 Inclusive	390	-	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	70

TYPICAL USES

Product Category	Product
Marine	Marine Hardware, Seawater Valve Stems.

IS:291 GRADE-II:NAVAL BRASS



Product Category	Product
Industrial	Gears, Light Bearings, Screw Machine Parts, Valve Stems.
Fasteners	Fasteners.

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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