



Adinath

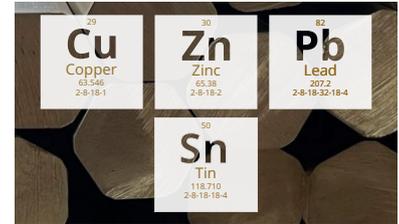
Create, Enhance & Sustain

C-46500:NAVAL BRASS

Specification Sheet

DESCRIPTION

C46500 Naval Brass is a type of Copper-Zinc-Tin alloys with an added amount of Arsenic. The addition of Arsenic in the alloy provides good resistance to atmospheric, brackish water, sea water, and non-oxidizing acid corrosion.



CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Sn	As
Min (%)	59.00	-	Balance	-	0.50	0.02
Max (%)	62.00	0.10		0.20	1.00	0.10

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 will be available upon shape & size Feasibility of Brass Rod

C-46500:NAVAL BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
3 to 12.50 Inclusive	415	185	22	-	
12.50 to 25 Inclusive	415	185	25	-	
25 to 50 Inclusive	400	180	25	-	
50 to 75 Inclusive	270	170	25	-	
Hex (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
3 to 12.50 Inclusive	415	185	22	-	
12.50 to 25 Inclusive	415	180	25	-	
25 to 50 Inclusive	400	170	25	-	
50 to 75 Inclusive	270	170	25	-	
Square (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
3 to 12.50 Inclusive	415	185	22	-	
12.50 to 25 Inclusive	415	185	25	-	
25 to 50 Inclusive	400	180	25	-	
50 to 60 Inclusive	270	170	25	-	
Rectangle					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Thickness	3 to 12.50 Inclusive	415	185	22	-
	12.50 to 25 Inclusive	415	185	25	-
	25 to 50 Inclusive	400	180	25	-

PACKING



-  PVC Pipe Packing for Small Diameter Rods.
-  Hessian Cloth Packing.
-  Wooden Box Packing as per Customer requirements.

C-46500:NAVAL BRASS



FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Excellent	30

TYPICAL USES

Product Category	Product
Architecture	Architectural Metal, Elevators.
Fasteners	Bolts, Nuts, Rivets.
Industrial	Aircraft Turn buckle Barrels, Balls, Condenser Plates, Heat Exchanger Tube, Heat Sinks, Petrochemical Tanks, Plates, Baffles, Structural Uses, Valve Stems, Welding Rod.
Marine	Marine Hardware, Propeller Shafts.
Plumbing	Fittings.

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



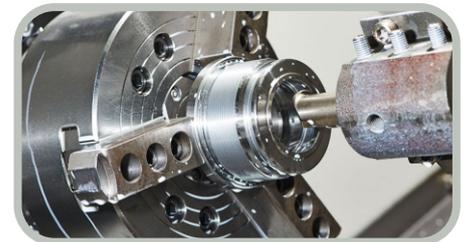
 25 Grams to 10 Kgs

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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