



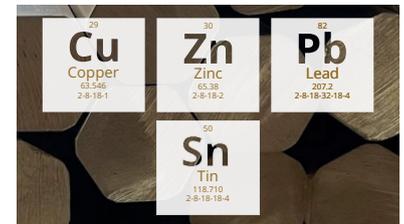
Adinath

Create, Enhance & Sustain

C-48500:NAVAL BRASS Specification Sheet

DESCRIPTION

C48500 Naval Brass alloys is also referred as High Leaded Naval Brass noted for its machinability and resistance to wear, fatigue, galling and stress corrosion cracking. Due to the presence of higher percentage of lead, this alloy has poor cold forming ability. C48500 is suitable for valve stems, machined bearings and marine hardware products.



CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Sn	Oi
Min (%)	59.00	-	Balance	1.30	0.50	-
Max (%)	62.00	0.10		2.20	1.00	0.40

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

C-48500:NAVAL BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
3 to 12 Inclusive	415	185	12	-	
12 to 25 Inclusive	415	185	12	65-85	
25 to 50 Inclusive	400	180	20	60-85	
50 to 75 Inclusive	370	170	20	60-85	
Hex (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
3 to 12 Inclusive	415	185	12	-	
12 to 25 Inclusive	415	185	12	65-85	
25 to 50 Inclusive	400	180	20	60-85	
50 to 70 Inclusive	370	170	20	60-85	
Square (A/F)					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
3 to 12 Inclusive	415	185	12	-	
12 to 25 Inclusive	415	185	12	65-85	
25 to 50 Inclusive	400	180	20	60-85	
50 to 70 Inclusive	370	170	20	60-85	
Rectangle					
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)	
Thickness	3 to 12 Inclusive	415	185	12	-
	12 to 25 Inclusive	415	185	12	65-85
	25 to 50 Inclusive	400	180	20	60-85

PACKING



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

C-48500:NAVAL BRASS



FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Good	70

TYPICAL USES

Product Category	Product
Marine	Marine Hardware, Seawater Valve Stems.
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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