



Adinath

Create, Enhance & Sustain

CZ133:NAVAL BRASS Specification Sheet

DESCRIPTION

Naval Brass, as the name indicates, were originally developed for sea water service applications since it is a hard and durable material that provides excellent corrosion resistance, hot workability, and hot forgeability. Majority of the grades falling under Naval Brass are considered Lead Free products with Lead content around 0.20%. The usage of Naval Brass is not limited to Marine products, but also in bushings, valve stems, fasteners and wear strip because of its higher tensile strength and wear resistance properties.



CHEMICAL COMPOSITION

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

CZ133:NAVAL BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
6 to 18 Inclusive	400	170	20	-	
Over 18 to 40 Inclusive	350	150	25	-	
Hex (A/F)					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
6 to 18 Inclusive	400	170	20	-	
Over 18 to 40 Inclusive	350	150	25	-	
Square (A/F)					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
6 to 18 Inclusive	400	170	20	-	
Over 18 to 40 Inclusive	350	150	25	-	
Rectangle					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
Thickness	6 to 18 Inclusive	400	170	20	-
	Over 18 to 40 Inclusive	350	150	25	-

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	Excellent	30

CZ133:NAVAL BRASS



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.

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

