



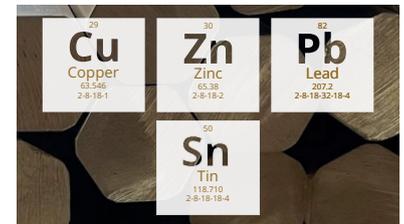
Adinath

Create, Enhance & Sustain

C-46200:NAVAL BRASS Specification Sheet

DESCRIPTION

C46200 Naval Brass comprises of Copper, Zinc and additional Tin content. This alloy has excellent hot forgeability, good strength, good corrosion resistance, fair electrical conductivity, and a higher dezincification resistance than UNS C46400 alloy. C46200 brasses are often used for decorative and architectural products because of their attractive appearances as compared to architecture bronze.



CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Sn	Oi
Min (%)	62.00	-	Balance	-	0.50	-
Max (%)	65.00	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

C-46200:NAVAL BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
3 to 12 Inclusive		400	185	22	-
12 to 25 Inclusive		385	185	25	-
25 to 50 Inclusive		370	180	25	-
50 to 75 Inclusive		360	170	27	-
Hex (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
12 to 25 Inclusive		385	185	25	-
25 to 50 Inclusive		370	180	25	-
50 to 65 Inclusive		360	170	27	-
Square (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
3 to 12 Inclusive		400	185	22	-
12 to 25 Inclusive		385	185	25	-
25 to 50 Inclusive		370	180	25	-
50 to 60 Inclusive		360	170	27	-
Rectangle					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Thickness	3 to 12 Inclusive	400	185	22	-
	12 to 25 Inclusive	385	185	25	-
	25 to 50 Inclusive	370	180	25	-

PACKING



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

C-46200:NAVAL BRASS



FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Excellent	30

TYPICAL USES

Product Category	Product
Marine	Marine applications.
Industrial	Automatic Screw Machine Parts.
Fasteners	Fasteners and hardware for corrosion resistant service.

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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