



Adinath

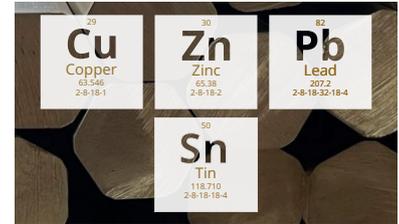
Create, Enhance & Sustain

CZ112:NAVAL BRASS

Specification Sheet

DESCRIPTION

Cz112 is equivalent to CW712R Naval Brass Alloy. The general composition of the alloy comes with 62% Copper, 39% Zinc and most importantly, 1% addition of Tin which offers superior strength and excellent corrosion resistance in seawater and other aggressive acidic environments. CZ112 has good strength levels combined with an excellent hot formability.



CHEMICAL COMPOSITION

| Element | Cu | Zn | Sn | Oi |
|---------|-------|---------|------|------|
| Min (%) | 61.00 | Balance | 1.00 | - |
| Max (%) | 63.50 | | 1.40 | 0.70 |

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

CZ112: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 | - | 15 | - |
| Over 18 to 40 Inclusive | 350 | - | 20 | - |
| Hex (A/F) | | | | |
| Range (mm) | UTS Min (N/MM ²) | PS Min (N/MM ²) | Elongation Min (%) | Hardness (HRB) |
| 6 to 18 Inclusive | 400 | - | 15 | - |
| Over 18 to 40 Inclusive | 350 | - | 20 | - |
| Square (A/F) | | | | |
| Range (mm) | UTS Min (N/MM ²) | PS Min (N/MM ²) | Elongation Min (%) | Hardness (HRB) |
| 6 to 18 Inclusive | 400 | - | 15 | - |
| Over 18 to 40 Inclusive | 350 | - | 20 | - |
| Rectangle | | | | |
| Range (mm) | UTS Min (N/MM ²) | PS Min (N/MM ²) | Elongation Min (%) | Hardness (HRB) |
| Thickness | 6 to 18 Inclusive | 400 | 15 | - |
| | Over 18 to 40 Inclusive | 350 | 20 | - |

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 |

CZ112: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.

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