



Adinath

Create, Enhance & Sustain

CZ115:HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

Cz115 High Tensile Brass is similar to CZ114 but with controlled additions of Aluminium content. This makes the alloy suitable for making high strength brass components which requires to be joined. Presence of Iron provides increased strength levels, while Tin improves the corrosion resistance of the alloy. CZ115 has good machinability rating, ease of hot forging and is often referred as Manganese Bronze.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb	Sn	Oi
Min (%)	56.50	-	0.30	0.50	Balance	0.50	0.20	-
Max (%)	58.50	0.10	1.00	2.00		1.50	0.80	0.50

Note: Ni includes Co; Cu+ named elements >= 99.5%; Unless otherwise noted, single values represent maximums.

SHAPE



SOLID ROUND BARS
Size Range :
 Dia 10 mm up to 120 mm.



SOLID HEX BARS
Size Range :
 A/F 10 mm up to 100 mm.



SOLID SQUARE BARS
Size Range :
 A/F 10 mm up to 90 mm.



SOLID RECTANGLE BARS
Size Range :
 A/F 10 x 12 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

CZ115:HIGH TENSILE BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
4 to 18 Inclusive	460	250	12	-	
Over 18 to 75 Inclusive	440	210	15	-	
HEX (A/F)					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
4 to 18 Inclusive	460	250	12	-	
Over 18 to 70 Inclusive	440	210	15	-	
Square (A/F)					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
4 to 18 Inclusive	460	250	12	-	
Over 18 to 60 Inclusive	440	210	15	-	
Rectangle					
Range (mm)	UTS Min (N/MM ²)	PS Min (N/MM ²)	Elongation Min (%)	Hardness (HRB)	
Thickness	4 to 18 Inclusive	460	250	12	-
	Over 18 to 50 Inclusive	460	210	15	-

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	Good	30

CZ115:HIGH TENSILE BRASS



TYPICAL USES

Product Category	Product
Industrial	Gas Valves and Fittings, Fasteners, Pump Trim, Gears, Locks, Heavy-Duty Electrical Connectors, Transmission Components, Safety Tools and Decorative Metalwork, Marine Hardware.

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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