

Adinath

Create, Enhance & Sustain

CZ109:LEAD FREE BRASS

Specification Sheet

DESCRIPTION

CZ109 is a lead free material which is however quite suitable for machining due to its structural constitution. CZ109 can be therefore used as a cost-effective replacement for conventional lead-containing machining brass provided that it must not meet high requirements as regards mechanical properties and corrosion resistance



CHEMICAL COMPOSITION

Element	Cu	Zn	Pb	Oi
Min (%)	59.00	Balance	-	-
Max (%)	62.00		0.10	0.30

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

SHAPE



SOLID ROUND BARS

Size Range :
Dia 8 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

CZ109:LEAD FREE BRASS



MECHANICAL PROPERTIES

Round (Dia)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 6 to 40 Inclusive		340	-	25	-
HEX (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 6 to 40 Inclusive		340	-	25	-
Square (A/F)					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 6 to 40 Inclusive		340	-	25	-
Rectangle					
Range (mm)		UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Thickness	Over 6 to 40 Inclusive	340	-	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	40

TYPICAL USES

Product Category	Product
Architecture	Grillwork, Handrails.

CZ109:LEAD FREE BRASS



Product Category	Product
Builders Hardware	Finish Hardware, Hinges, Kick Plates, Locks, Push Plates, Stencils.
Fasteners	Eyelets, Fasteners, Grommets, Pins, Rivets, Screws.
Industrial	Bead Chain, Chain, Springs.

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



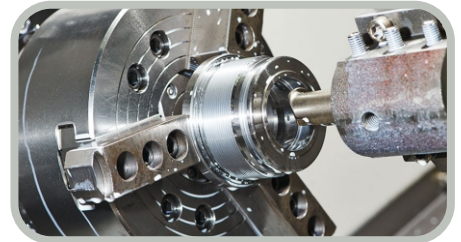
 25 Grams to 10 Kgs

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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