



Adinath

Create, Enhance & Sustain

CW509L:LEAD FREE BRASS

Specification Sheet

DESCRIPTION

CW509L is a high copper and lead free alloy with a nominal level of impurities. It is used as a cost effective replacement for leaded machining brass when lead content is required less than 0.10%, with conditions of no higher demand of mechanical properties and corrosion resistance. Also known as "Muntz Metal", this alloy offers excellent hot working properties for corrosion-resistant machine parts.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Zn	Pb	Sn	Oi
Min (%)	59.00	-	-	-	Balance	-	-	-
Max (%)	61.50	0.05	0.20	0.30		0.20	0.20	0.20

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

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MECHANICAL PROPERTIES

Round (Dia)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 2 to 40 Inclusive	410	230	10	-
HEX (A/F)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 3 to 35 Inclusive	410	230	10	-
Square (A/F)				
Range (mm)	UTS Min (MPA)	PS Min (MPA)	Elongation Min (%)	Hardness (HRB)
Over 3 to 35 Inclusive	410	230	10	-

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

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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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