

## IS 3091 : 1999 Aluminum Bronze

We are a leading and well recognized names in the field of offering quality finished range of IS 3091 : 1999 Aluminum Bronze that are as per BS:2872 CA-103, 104, ADM1076D, IS:10569/83, BS:1400AB1, AB2, IS:305 AB1. Also meeting the specifications as per IS 10569/05 NR. EQUIVALENT SPEC. BS 2872/86 CA103, ASTMBC62300, these are made available in annealed finish in sizes of 6 to 15, 15 to 50, 50 to 80 and 80 and above. These bronze rods have excellent capacity to be cold and hot formed and have machine-ability rating of 50%. Further, the rods have Forge-ability rating of 75 %, fair suitability for brazing and good welding capability.



Being corrosion resistant & non sparking alloy, some of the application uses of these bronze rods include

- Oil refinery
- Valves & fittings
- For worm gears
- Valve stems
- High pressure valves

### Specifications:

<b>Aluminum Bronze</b>	<ul style="list-style-type: none"> <li>• ASTM B 111 C60800</li> <li>• ASME SB 111 C 60800</li> <li>• EN 12451 CuAl5As</li> <li>• CW200G</li> </ul>
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Chemical Requirements	
Copper	Remainder
Aluminium	8.5 to 11.0%
Iron	4.0 to 6.0%
Nickel	4.0 to 6.0%
Manganese	0.50% max
Tin	0.10% max
Zinc	0.40% max

Silicon	0.10% max		
Total Imp. Excl. Mn	0.50% max		
<b>Physical Properties</b>			
<b>Condition</b>	<b>Size</b>	<b>T.S. MPa</b>	<b>EL% Min</b>
Annealed / As Manufactured	6 to 15	700	10%
	15 to 50	700	12%
	50 to 80	680	12%
	80 & above	650	12%
<b>Fabrication Properties</b>			
Capacity for being			
Cold formed	Poor		
Hot formed	Good		
Machinability rating	30%		
Forgeability rating	75%		
Suitability for soldering	Poor		
Suitability for Brazing	Fair		
Suitability for welding	Good		
<b>Uses</b>			
Excellent for corrosion resistant, Highest strength, Good wear and heat resistance, Like marine pump hardware & bearings, Valve guides & seats, Nuts, Shaft, Bolts & Threaded Parts for Ship building & power generation industries.			

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