

C93200 Leaded Tin Bearing Hollow Bar

Product Description

CC333G Nickel Aluminum Bronze

ASTM B505

CC333G Nickel Aluminum Bronze 9D is available with

salt water corrosion resistance. It also is resistant to

cavitation and erosion. Along with the advantage of



pressure tightness, this high strength alloy is excellent for welding and is available in many forms at a lower cost to you.

Typical Uses :

Builders Hardware: Window Hardware

Consumer: Piano Keys, Musical Instruments

Electrical: Electrical Hardware

Fasteners: Stuffing Box Nuts

Industrial: Pickling Equipment, Valve Guides, Piston Guides, Valve Seats, Pump Fluid Ends, Glands, Worms, Worms Wheels, Hot Mill Guides, Hand Gun Recoil Mechanisms, Landing Gear Parts, Air Craft Components, Wear Plates, Welding Jaws, Landing Gear Parts, Glass Molds, Machine Parts, Sewage Treatment Applications, Valve Components, Bearings, Bushings, Valve Bodies. Gears Oil & Gas: Piping for Vertical Pump Columns, Firefighting and Fire Suppression Systems, Seawater Lift Pumps, Piping Layout, Flanges and Fittings, Discharge Elbows, Cooling Loops for Power Plants, Bronze Valve Bodies, Piping Systems, Desalination Equipment, Tube Sheets, Circulating Pumps and Pump Shafts, Fasteners and Hardware for Cooling towers. Marine: Marine Applications, Covers for Marine Hardware, Ship Building, Marine Hardware

Ordinance: Government Fittings

Chemical Composition:						
	Al	Cu	Fe	Mn	Ni	
Min/Max	10.0-11.5	78.0 min	3.0-5.0	3.5	3.0-5.5	
Nominals	11	80	4	-	4.3	

Fabrication				
Joining Technique	Suitability			
Brazing	Good			
Coated Metal Arc Welding	Not Recommended			
Gas Shielded Arc Welding	Not Recommended			
Machinability Rating	40			
Oxyacetylene Welding	Not Recommended			
Soldering	Excellent			

Physical Properties				
Product Property	US Customary	Metric		
Coefficient of Thermal Expansion	9.0 · 10-6 per oF (68-572 F)	16.2 · 10-6 per oC (20-300 C)		
Density	0.272 lb/in3 at 68 F	7.53 gm/cm3 @ 20 C		
Electrical Conductivity	8 %IACS @ 68 F	0.049 MegaSiemens/cm @ 20 C		
Electrical Resistivity	122.8 ohms-cmil/ft @ 68 F	20.41 microhm-cm @ 20 C		
Magnetic Permeability (As Cast)	1.32	1.32		
Magnetic Permeability (TQ50 temper)	1.2	1.2		

Melting Point - Liquidus	1930 F	1054 C
Melting Point - Solidus	1900 F	1038 C
Modulas of Elasticity in Tension	16000 ksi	110000 MPa
Poisson's Ratio	0.32	0.32
Specific Gravity	7.53	7.53
Specific Heat Capacity	0.1 Btu/lb/oF at 68 F	419.0 J/kg · oK at 293 K
Thermal Conductivity	24.2 Btu · ft/(hr · ft2·oF)at 68F	41.9 W/m · oK at 20 C

Sizes Available:				
ROUND RODS	8mm To 70 mm			
HEX	10mm To 60mm			
SQUARE	10mm To 60mm			
FLAT	10mm Min Thickness and max Width 120mm			
BILLETS	Up to 200 mm			
INGOTS	As per Specification			

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