

SHREE EXTRUSIONS LIMITED



C95400 Aluminum Bronze, also known by C954, is the most popular, all-purpose aluminum bronze alloy. It provides high yield and tensile strength, good ductility, weld ability and exceptional resistance to wear, fatigue and deformation under shock or overload. Typical applications include bearings, gears, and valve components, wear plate and wear strip. Conforms to continuous cast specification ASTM B505 and centrifugal cast specification ASTM B271

AUTOMOTIVE: Weld Guns FASTENERS: Nuts, Large Hold Down Screws INDUSTRIAL: Pickling Hooks, Bearings, Pawl, Worm Gears, Machine Parts, Spur Gears, Heavily Loaded Worm Gears, Pump Parts, Landing Gear Parts, Valve Bodies, Valve Guides, Valve Seats, Bearing Segments for the Steel Industry, Pressure Blocks for the Steel Industry, High Strength Clamps, Bushings, Valves, Gears MARINE: Ship Building, Covers for Marine Hardware ORDINANCE: Government Fittings

CHEMICAL COMPOSITION

	Al	Cu	Fe	Mn	Ni
Min/Max	10.0-11.5	83.0 min	3.0-5.0	0.5	1.5
Nominal	10.8000	83.2000	4.0000	-	-

IS 3091: 1999 CHEMICAL COMPOSITION

	Al	Cu	Fe	Mn	Ni
Min/Max	09.0-11.0	83.0 min	4.0-5.0	0.1 - 0.5	-
Nominal	10.8000	83.2000	4.0000	-	-

PHYSICAL PROPERTIES

THI GIONET NOT ENTIRE			
Product Property	US Customary		
Coefficient of Thermal Expansion	9.0 •10-6 per oF (68-572 F)		
Density	0.269 lb/in3 at 68 F		
Electrical Conductivity	13 %IACS @ 68 F		
Electrical Resistivity	80.2 ohms-cmil/ft @ 68 F		
Magnetic Permeability (As Cast)	1.27		
Magnetic Permeability (TQ50 temper)	1.2		
Melting Point – Liquidus	1900 F		
Melting Point – Solidus	1880 F		
Modulas of Elasticity in Tension	15500 ksi		
Specific Gravity	7.45		
Specific Heat Capacity	0.1 Btu/lb/oF at 68 F		
Thermal Conductivity	33.9 Btu • ft/(hr • ft2•oF)at 68F		

IS 3091: 1999 Tensile Properties:

Tensile Property

0.2 percent permanent set proof stress

250 MPa

Tensile strength

Elongation on 50 mm gauge length

Availability

250 MPa

600 MPa

SIZES AVAILABLE:

 ROUND RODS/BARS
 8mm To 100 mm

 HEX
 10mm To 60mm

 SQUARE
 10mm To 60mm

 FLAT
 10mm Min Thicknes

FLAT 10mm Min Thickness and max Width 120mm BILLETS Up to 200 mm

INGOTS Up to 200 mm
INGOTS As per Specification
Regd. Office & Works:217/218 Phase-II, Okha Rajkot Road, Dared, Jamnagar - 361004 INDIA

NABL / ISO : 15189



