

SHREE EXTRUSIONS LIMITED



AMS 4640

CuAL10Ni5Fe4 (AMS 4640) Nickel Aluminum Bronze alloy is an excellent choice for applications involving heavy loads, abrasive wear resistant, friction, abrasive wear and corrosion. The addition of nickel increases the alloys strength without diminishing its excellent ductility, toughness and corrosion resistance. Typical applications include aircraft landing gear components, strut bearings, main pistons, trunnion bearings and similar vital components.

TYPICAL USES for CuAL10Ni5Fe4 Nickel Aluminum Bronze:

INDUSTRIAL: Hydraulic Bushings for Earth Moving Equipment, Corrosion Resistant Articles, Bushings, Bearings, Heat Exchanger Flanges, Heat Exchanger Headers, Tanks, Valve Balls, Structural Members, Pump Shafts, Aircraft Parts, Valve Guides, Plunger Tips, Welded Piping Systems, Balls, Gears, Cams, Pump Parts, Shafting, Condenser Tube for Power Stations and Desalting Units, Valve Seats **MARINE:** Pump Parts, Bolts, Nuts, Propellers, Ship Propellers **PLUMBING:** Faucets

CHEMICAL COMPOSITION

	Al	Cu	Fe	Mn	Ni	Si	Sn	Zn
Min/Max	9.0 - 11.0	Rem	2.0 - 4.0	1.5	4.0 - 5.5	0.25	0.2	0.3
Nominals	10.0000	82.0000	3.0000	-	5.0000	-	-	-

PHYSICAL PROPERTIES

Product Property	US Customary			
Coefficient of Thermal Expansion	9.0 •10-6 per oF (68-572 F)			
Density	0.274 lb/in3 @ 68 F			
Electrical Conductivity	7 %IACS @ 68 F			
Electrical Resistivity	116.0 ohms-cmil/ft @ 68 F			
Melting Point Liquid US	1930 F			
Melting Point Solid US	1895 F			

SIZES AVAILABLE:

ROUND RODS

8mm To 100 mm

10mm To 60mm

SQUARE

10mm To 60mm

10mm To 60mm

10mm Min Thickness and max Width 120mm

BILLETS

Up to 200 mm

INGOTS

As per Specification

Regd. Office & Works:

217/218 Phase-II, Okha Rajkot Road, Dared, Jamnagar - 361 004. INDIA

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