



SHREE EXTRUSIONS LIMITED



C63020

NICKEL ALUMINUM BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuAl0Ni5Fe4
European	CuAl0Ni5Fe4
BS	CA 104
JIS	C 6301
Russian	BrAZN10.4.4

AMS 4590

High ductility, high electrical and thermal conductivity, high impact strength, good creep resistance, ease of welding, and low volatility under high vacuum.

TYPICAL USES for C63020 Nickel Aluminum Bronze:

INDUSTRIAL: Bearings, Bushings, Valve Balls, Forming Dies for Roll Bearings, Hydraulic Bushings for Earth Moving Equipment, Valve Parts - Cryogenic

CHEMICAL COMPOSITION

	Al	Cr	Co	Cu	Fe	Pb	Mn	Ni	Sn	Zn
Min/Max	10.0 - 11.0	0.05	0.2	74.5 min	4.0 - 5.5	0.03	1.5	4.2 - 6.0	0.25	0.3
Nominals	10.5000	-	-	-	4.7000	-	-	5.1000	-	-

PHYSICAL PROPERTIES

Young's Modulus	18,000 ksi
Density	0.267 lb/in ³
Melting Range	1940 - 1965oF
Coefficient of Expansion	(68 to 572oF) 9.4 +in/in oF
Thermal Conductivity	26 Btu/ft h oF
Electrical Conductivity	6.3 % IACS
Electrical Resistivity	0.27 Ω (circ mil/ft)
Relative Magnetic Permeability	1.75

SIZES AVAILABLE :

ROUND RODS/BARS
 HEX
 SQUARE
 FLAT
 BILLETS
 INGOTS

8mm To 100 mm
 10mm To 60mm
 10mm To 60mm
 10mm Min Thickness and max Width 120mm
 Up to 200 mm
 As per Specification

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