



NICKEL ALUMINUM BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuAl9Fe4Ni4
UNS	C63280
Czech Republic	CuAl9Fe4Ni4

ASTM B150, QQ-C-465

C63200 superior salt water corrosion resistance. It also is resistant to cavitations 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 for C63020 Nickel Aluminum Bronze:

INDUSTRIAL: Bearing Cages, Sleeve Bearings, Valve Stems, Shafts, Cams, Sea Water Valves, Sea Water Pump Bodies, Bushings
FASTENERS: Fasteners, Sea Water, Nuts, Bolting **MARINE:** Drive Shafts, Marine Service

CHEMICAL COMPOSITION

	Al	Cu	Fe	Pb	Mn	Ni	Si
Min/Max	8.7 - 9.5	Rem	3.5 - 4.3	0.02	1.2 - 2.0	4.0 - 4.8	0.1
Nominals	9.0000	82.0000	4.0000	-	1.6000	4.4000	-

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	9.0 $\times 10^{-6}$ per oF (68-572 F)
Density	0.276 lb/in ³ @ 68 F
Electrical Conductivity	7 %IACS @ 68 F
Electrical Resistivity	148.0 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1940 F
Melting Point Solid US	1905 F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	6400 ksi
Specific Gravity	7.64
Specific Heat Capacity	.105 Btu/lb/ Δ° F @ 68 F
Thermal Conductivity	20.0 Btu Δ° ft/(hr Δ° ft ² Δ° F) @ 68 F

SIZES AVAILABLE :

ROUND RODS	8mm To 100 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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