



Metal Alloys Corporation



ALPHA NICKEL ALUMINUM BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuAl10Fe5Ni5
European	CuAl10Fe5Ni5
BS	CuAl10Fe5Ni5
JIS	C Ac703
Russian	BrA10ZN4L

C95800 offers superior 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.

Cast ASTM: B271, B505, B148 Military/AMS: MIL-B-24480 Other: ABS - 4

COMMON APPLICATIONS:

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, Hardware for Cooling towers

CHEMICAL COMPOSITION

	Al	Cu	Fe	Pb	Mn	Ni	Si
Min/Max	8.5-9.5	79.0 min	3.5-4.5	0.03	.8-1.5	4.0-5.0	0.1
Nominals	9.0000	81.0000	4.0000	-	1.0000	4.5000	-

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 at 68 F
Electrical Conductivity	7 %IACS @ 68 F
Electrical Resistivity	146.7 ohms-cmil/ft @ 68 F
Information not available on website	
Magnetic Permeability	1.05
Melting Point - Liquidus	1940 F
Melting Point - Solidus	1910 F
Modulus of Elasticity in Tension	16500 ksi
Poisson's Ratio	0.32
Specific Gravity	7.64
Specific Heat Capacity	0.105 Btu/lb/oF at 68 F
Thermal Conductivity	20.8 Btu \hat{A} • ft/(hr \hat{A} • ft ² \hat{A} • oF) at 68F

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

Regd. Office & Plant

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