



Metal Alloys Corporation



ALUMINUM BRONZE "9A"

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuAl0Fe3
European	CuAlFe2-B/C
BS	CuAl10Fe3
JIS	CAC701
Russian	BrA9Z3L/BrA10Z3

C95200 Aluminum Bronze is used in a wide range of applications including electrical, fasteners, industrial, marine and ordnance.

TYPICAL USES :

ELECTRICAL: Electrical Hardware **FASTENERS:** Nuts **MARINE:** Marine Hardware, Covers for Marine Hardware, Propellers, Marine Engines **ORDINANCE:** Gun Mountings, Gun Slides **INDUSTRIAL:** Pickling Tanks, Mild Alkali Applications, Large Gear Parts, Hydrant Parts, Valve Seats, Hot Mill Guides, Welding Jaws, Pickling Equipment, Worm Wheels, Worms, Valve Bodies, Wear Plates, Thrust Pads, Bearing Liners, Pump Parts, Valves, High Strength Clamps, Acid Resistant Pumps, Bearings, Bushings, Gears, Plungers, Pump Rods

CHEMICAL COMPOSITION

	Al	Cu	Fe
Min/Max	8.5-9.5	86.0 min	2.5-4.0
Nominals	9.0000	87.7000	3.3000

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	11 %IACS @ 68 F
Electrical Resistivity	94.0 ohms-cmil/ft @ 68 F
Magnetic Permeability	1.1
Melting Point - Liquidus	1913 F
Melting Point - Solidus	1907 F
Modulus of Elasticity in Tension	15000 ksi
Poisson's Ratio	0.31
Specific Gravity	7.64
Specific Heat Capacity	0.09 Btu/lb/oF at 68 F
Thermal Conductivity	29.1 Btu \hat{A} • ft/(hr \hat{A} • ft ² • oF)at 68F

SIZES AVAILABLE :

ROUND RODS/BARS	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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