



C954 ALUMINUM BRONZE

ASTM B271 ASTM B505 ASTM B148 QQ-C-390

UNS No.	Aluminum	Copper	Iron	Manganese	Nickel
C44300	10.0-11.5	83.0 min	3.0-5.0	0.5	1.5

C95400 Aluminum Bronze is a high-strength alloy known for its exceptional corrosion resistance and wear properties. Composed primarily of copper, aluminum, and iron, this alloy is often utilized in demanding marine environments due to its ability to withstand saltwater corrosion. Typical applications include marine hardware, propeller shafts, and pump components, where durability and strength are crucial. Additionally, C954 is used in industrial settings for bearings, bushings, and gears, benefiting from its low friction characteristics and fatigue resistance. Its versatility makes it a preferred choice in various sectors, including aerospace, oil and gas, and heavy machinery, ensuring reliable performance in challenging conditions.

Fabrication Properties

Density @ 68° F	0.269 lb/in ³
Melting Range	1900° F
Machinability rating (C36000 = 100)	60
Brazing	Good
Soldering	Good
Gas-shielded arc welding	Good
Oxy-acetylene welding	No recommended
Coated metal-arc welding	Good

Mechanical Properties

	Tensile	Yield	Elongation	Brinell Hardness
B271	75K min.	30K min.	12% min.	150 min
B505	85K min.	32K min.	12% min.	
B148	75K min.	30K min.	12% min.	150 min.

