

## **C63200 NICKEL ALUMINUM BRONZE**

**ASTM B150 ASTM B124 ASTM B171 ASTM B124** 

UNS No.		Aluminum	Copper	Iron	Lead	Manganese	Nickel	Silicon
C63200	Min/Max	8.7-9.5	Rem	3.5-4.3	0.02	12-20	4.0-4.8	0.1
	Nominals	9.0000	82.0000	4.0000		1.6000	4.4000	

C63200 Bronze is a highly versatile alloy renowned for its exceptional strength, corrosion resistance, and excellent machinability. It is commonly supplied in various forms, including bar, plate, and forgings, making it suitable for a wide range of applications across different industries. In marine environments, C63200 Bronze is particularly valued for its durability and resistance to seawater corrosion. Typical applications include propellers, pumps, valves, and fittings, where reliable performance is crucial. Its ability to withstand harsh conditions while maintaining structural integrity makes it an ideal choice for demanding marine applications, contributing to the longevity and efficiency of maritime operations.

## **Fabrication Properties**

0.276 lb/in <sup>3</sup>		
1905-1940 °F		
Good		
Fair		
30		
Fair		
Fair		
Excellent		
Not recommended		
Good		
Good		
Good		

## **Mechanical Properties**

BAR Properties									
Temper Size		Tensile (KSI Min)	Yield @ 0.5% min ksi	Elongation % Min					
TQ50	Up to 3"	90	50	15					
	Over 3" to 5"	90	45	15					
Over 5" to 12"		90	40	15					
020	All Sizes	90	40	15					
025	All Sizes	90	40	15					
PLATE Properties									
Temper Size		Tensile (KSI Min)	Yield @ 0.5% min ksi	Elongation % Min					
M20/025	M20/025 Up to 2"		36	10					
Over 2" to 3-1/		85	33	10					
	Over 3-1/2" to 5"	80	30	10					



