



THAMES
STOCKHOLDERS

UNS C63000

NICKEL ALUMINIUM BRONZE ALLOY

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Product Overview

UNS C63000 is a high-strength nickel aluminium bronze alloy providing outstanding corrosion resistance.

Including nickel in the alloying process strengthens the material without reducing toughness, ductility or corrosion resistance. UNS C63000 offers improved corrosion resistance in marine environments and better malleability than BS B23. The alloy also provides excellent abrasion, shock and wear resistance. Our product is ideal for subsea and above-sea applications and also finds extensive use in aerospace and naval sectors.

Availability:

- Round bar, plate

Applications

- Heat exchangers
- Pump components
- Marine fasteners
- Gear bushes

Key Features

- Excellent corrosion resistance (particularly marine)
- Excellent toughness
- High strength
- Excellent fatigue resistance

*Chemical Composition (weight, %)

	Cu	Al	Ni	Fe	Mn	Si	Sn	Zn
Min.	Bal	9.00	4.00	2.00				
Max.	Bal	11.00	5.50	4.00	1.50	0.25	0.20	0.30

*As per AMS 4640

*Mechanical Properties

	25.4mm or less	25.4 - 50.8mm	50.8 - 76.2mm	76.2 - 127.0mm	Hardness	
Diameter						
UTS (MPa)	758	758	724	689	Up to 50.8mm	201-248 HB
0.2% Proof Strength (MPa)	469	414	379	345		
Elongation (%)	10	10	10	10	50.8mm to 127mm	187-241 HB

*As per AMS 4640



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