



Alum Bronze ASTM B150 C63000

Aluminium Bronze, ASTM B150 C63000 is a high strength copper aluminium alloy which offers good resistance to corrosion, friction and abrasive wear. The element of nickel increases its strength without decreasing the ductility of Aluminium Bronze ASTM B150 C63000. It is also a good performer in applications involving heavy loads.

Aluminium Bronze ASTM B150 C63000 is used in a number of applications where resistance to corrosion, friction and abrasive wear, as well as toughness, is required. This includes applications such as landing gear components on aircraft, marine bolts/nuts, ship propeller components and parts for the oil & gas industry etc.

Alum Bronze ASTM B150 C63000 Grades & Equivalents:

- ASTM B150
- ASTM B124
- ASTM B171
- ASTM B283
- AMS 4640
- SAE J463
- QQ-C-465

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
	0.250	1.500				4.0-5.5	
W	N	Cb/Nb	Ti	Co	Cu	Al	B
					Balance	9.0-11.0	
V	Fe	Mg	Ta	Ca	O	Bi	Se
	2.0-4.0						
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN
0.200	0.300						

Typical Mechanical Properties

Tensile Strength	690 N/mm ²
0.5% Proof Stress	345 N/mm ²
Elongation	5%
Reduction of Area	
Hardness	
Impacts	
Stress Rupture	
Other Remarks	Quoted mechanicals are for bar in the drawn and stress relieved condition in sizes ranging between 12mm and 25mm

Product Forms Available:

- Hexagon Head Bolts
- Hexagon Nuts
- Studbolts
- Socket Capscrews
- Socket Countersunk Screws
- Socket Setscrews
- & Many other special fasteners and bespoke machined parts

Products can be produced to customer drawings or relevant British (BS), American (ASME, ANSI), European (DIN, UNI) or International Standards (ISO).

The size ranges M3 to M120 Metric and 3/16" to 4.75" Imperial can be supplied. Thread forms include UNC, UNS, UNF, BSW, BSF, Whitworth, Metric, Metric Fine.



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