



Silicon Bronze UNS C65500

Silicon Bronze UNS C65500 has a balance of good ductility and high tensile strength. This material also offers resistance against many corrosives, such as organic chemicals, salt and fresh water and acids & alkalis. Silicon Bronze UNS C65500 has moderate strength as well as excellent hot and cold workability. It is not suitable for use with nitric acid, sulphides, acid chromates, or oxidizing salts such as ferric chloride.

Silicon Bronze UNS C65500 is used in a variety of applications such as aerospace, industrial and marine environments (hydraulic pressure lines, propeller shafts). UNS C65500 is also used in chemical processing and marine hardware because of its resistance to many corrosives.

Silicon Bronze UNS C65500 Grades & Equivalents:

- UNS C65500
- CDA655
- ASTM B98
- ASTM B124
- ASTM B105
- ASTM B99
- CW116C to EN

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
	2.8-3.8	0.50-1.30				0.60	
W	N	Cb/Nb	Ti	Co	Cu	Al	B
					Balance		
V	Fe	Mg	Ta	Ca	O	Bi	Se
	0.800						
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN
	1.500	0.050					

Typical Mechanical Properties

Tensile Strength	446 N/mm ² min
0.5% Proof Stress	260 N/mm ² min
Elongation	20%
Reduction of Area	
Hardness	65-90 HRb
Impacts	
Stress Rupture	
Other Remarks	

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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