



Def Stan 02-833

Aluminium Bronze BS2874 CA104/M and DEF STAN 02-833 is a non-sparking alloy which offers an excellent blend of strength and corrosion resistance, especially in marine environments. Aluminium Bronze BS2874 CA104/M and DEF STAN 02-833 also offers excellent abrasion and wear resistance, an ability to endure shock loading and first-rate mechanical properties at cryogenic temperatures.

Aluminium Bronze BS2874 CA104/M and DEF STAN 02-833 is used in a variety of applications, especially in marine environments as it is great for components which remain in contact with saltwater. It is also used in aerospace engineering, oil refinery, chemical engineering and other general engineering

Def Stan 02-833 Grades & Equivalents:

- CC333G
- CW307G
- BS1400 AB2
- BS1400 AB1
- BS2874 CA104
- NES833
- BSB23

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
	0.100	0.50				4.5-5.5	
W	N	Cb/Nb	Ti	Co	Cu	Al	B
					Balance	8.50-10.0	
V	Fe	Mg	Ta	Ca	O	Bi	Se
	4.0-5.5	0.050					
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN
0.100	0.400	0.050					

Typical Mechanical Properties in condition A

Tensile Strength	680 N/mm ² (02-833) - 700 N/mm ² (CA104)
0.2% Proof Stress	325 N/mm ² (02-833) - 400 N/mm ² (CA104)
Elongation	17% (02-833) - 10% (CA104)
Reduction of Area	
Hardness	
Impacts	24 Joules (02-833 only)
Stress Rupture	
Other Remarks	Ultrasonic required on Def Stan 02-833 Gr 1 Mechanicals based on size range >15-25 (02-833) and >6-18 (CA104)

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.



Callywhite Lane
Dronfield
Derbyshire
S18 2XR

T: +44 01246 291111

www.westspecialfasteners.co.uk

sales@westspecialfasteners.co.uk