

SPECIFICATIONS

Commercial	NES834 DEF STAN 834
------------	---------------------

A Silicon Aluminium Bronze Alloy with high strength and very high corrosion resistance especially in sewer and marine environments. Also has good ductility and impact strength. Mainly used in Naval Engineering, Nuclear, Aerospace and Defence Applications.

CHEMICAL COMPOSITION

DEFSTAN 02-834(PT2)/1(2000) Rod, Section, Forging & Forging Stock	
Element	% Present
Aluminium (Al)	6 - 6.4
Silicon (Si)	2 - 2.4
Iron (Fe)	0.5 - 0.7
Manganese (Mn)	0.5 max
Zinc (Zn)	0.4 max
Nickel (Ni)	0.1 max
Tin (Sn)	0.1 max
Lead (Pb)	0.01 max
Copper (Cu)	Balance

ALLOY DESIGNATIONS

DEF STAN 02-834
NES834
NES 834
DEF STAN 834
DGS1044

TEMPER TYPES

ANNEALED

SUPPLIED FORMS

Annealed Bar - Grades 1 and 2
Forgings Class 1, 2, 3

- Bar
- Rod
- Forgings

MECHANICAL PROPERTIES

DEFSTAN 02-834(PT2)/1(2000) Rod & Section Up to 50mm	
Property	Value
Proof Stress	275 Min MPa
Tensile Strength	525 Min MPa
Elongation A50 mm	20 Min %

Mechanical Properties shown are for annealed material.

DEFSTAN 02-834(PT2)/1(2000) Rod & Section 50mm to 100mm	
Property	Value
Proof Stress	235 Min MPa
Tensile Strength	525 Min MPa
Elongation A50 mm	20 Min %

Mechanical Properties shown are for annealed material.

DEFSTAN 02-834(PT2)/1(2000) Rod & Section Over 100mm	
Property	Value
Proof Stress	220 Min MPa
Tensile Strength	525 Min MPa
Elongation A50 mm	20 Min %

Mechanical Properties shown are for annealed material.

DEFSTAN 02-834(PT2)/1(2000) Forging & Forging Stock All	
Property	Value
Proof Stress	220 Min MPa
Tensile Strength	525 Min MPa
Elongation A50 mm	20 Min %

Mechanical Properties shown are for annealed material.

CONTACT

Address:	(incorporated in the USA)
Tel:	+44 (0)1371 811 642
Email:	info@aerometalsalliance.com

REVISION HISTORY

Datasheet Updated	13 November 2018
-------------------	------------------

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.