

SPECIFICATIONS

Commercial	NES834 DEF STAN 834
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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

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REVISION HISTORY

Datasheet Updated 13 November 2018

DISCLAIMER

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