

SPECIFICATIONS

Commercial	Alloy 625
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Alloy 625 is a Nickel-Chromium based Superalloy with Min 58% Nickel.

Note that the Chemical Composition requirements vary according to which variant is ordered. For full details consult the published specification.

CHEMICAL COMPOSITION

ASTM B446-03 (2014) Alloy 625	
Element	% Present
Nickel (Ni)	58 min
Chromium (Cr)	18 - 23
Molybdenum (Mo)	7 - 12.5
Iron (Fe)	2 - 5
Niobium (Columbium) (Nb)	3.15 - 4.15
Columbium + Tantalum (Cb+Ta)	3.15 - 4.15
Cobalt (Co)	1 max
Copper (Cu)	0.5 max
Silicon (Si)	0.5 max
Aluminium (Al)	0.4 max
Titanium (Ti)	0.4 max
Manganese (Mn)	0.05 max
Carbon (C)	0.03 max
Phosphorous (P)	0.02 max
Sulphur (S)	0.02 max

This details the main elements only

ALLOY DESIGNATIONS

N06625, N06219, N06650, Alloy 625, ASTM B446-03 (2014)

SUPPLIED FORMS

Please contact us with your requirements

- Bar
- Rod

MECHANICAL PROPERTIES

ASTM B446-03 (2014) Bar	
Property	Value
Proof Stress	270-420 Min MPa
Tensile Strength	660-820 Min MPa
Elongation A50 mm	25-50 Min %

A wide range of Mechanical requirements applies according to size and the degree of cold or hot work that has been applied. For full details consult the published specification.

CONTACT

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REVISION HISTORY

Datasheet Updated 26 February 2019

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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.

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