



Inconel Alloy 625 ®

Inconel Alloy 625 offers excellent resistance to heat and stress. Alloy 625 has good oxidation resistance at high temperatures. It also has very good resistance against corrosion such as salt water, organic acids and exhaust gases. Inconel Alloy 625 is hardened and strengthened only by cold working.

Inconel Alloy 625 is used in a variety of applications, including the chemical industry for its resistance to corrosion and its strength. It is also used in the aeronautical industry for parts which must be able to cope with high airframe and engine temperatures. Other applications include Furnaces (because of its excellent resistance to heat) and carburizing atmospheres.

Inconel Alloy 625 Grades & Equivalents:

- Inconel Alloy 625
- UNS N06625
- BS3076 NA21
- AMS 5666
- ASTM B446

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.10	0.50	0.50	0.015	0.015	20.0-23.0	58.0 min	8.0-10.0
W	N	Cb/Nb	Ti	Co	Cu	Al	B
			0.40	1.00		0.40	
V	Fe	Mg	Ta	Ca	O	Bi	Se
	5.00						
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN
				3.15-4.15			

Typical Mechanical Properties

Tensile Strength	827 N/mm ² min
0.2% Proof Stress	414 N/mm ² min
Elongation	30%
Reduction of Area	
Hardness	
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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