



## Inconel Alloy 600

*Inconel Alloy 600 is designed for use from cryogenic to elevated temperatures. Alloy 600 has very good resistance against corrosion such as salt water, organic acids and exhaust gases and is virtually immune to chlorine ion stress corrosion cracking. Inconel Alloy 600 is hardened and strengthened only by cold working.*

*Inconel Alloy 600 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 600 Grades & Equivalents:

- Inconel Alloy 600
- Werkstoff 2.4816
- UNS N06600
- ASTM B366
- BS3075 & BS3076 NA14
- ASTM B166
- ASTM B366

### Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.150	0.50	1.00		0.015	14.0-17.0	72.0 min	
W	N	Cb/Nb	Ti	Co	Cu	Al	B
					0.50		
V	Fe	Mg	Ta	Ca	O	Bi	Se
	6.0-10.0						
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN

### Typical Mechanical Properties

Tensile Strength	550 N/mm <sup>2</sup> min
0.2% Proof Stress	240 N/mm <sup>2</sup> 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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