



Inconel Alloy 686 ®

Inconel Alloy 686 ® is a Ni-Cr-Mo-W Alloy offering outstanding resistant to general corrosion, stress corrosion cracking and to pitting and crevice corrosion in a range of severe environments. It is especially suited to handling mixed acids containing high concentrations of halides.

Inconel Alloy 686 is used in a variety of applications, including the chemical industry for its resistance to aggressive media. It is also used pollution control, pulp and paper manufacture and waste management applications.

Inconel Alloy 686 Grades & Equivalents:

- UNS N06686
- Werkstoff 2.4606
- ASTM B574

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.01	0.08	0.75	0.04	0.02	19.0-23.0	Balance	15.0-17.0
W	N	Cb/Nb	Ti	Co	Cu	Al	B
3.0-4.4			0.02-0.25				
V	Fe	Mg	Ta	Ca	O	Bi	Se
	5.0						
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN

Typical Mechanical Properties

Tensile Strength	827 N/mm ² min
0.2% Proof Stress	586 N/mm ² min
Elongation	20%
Reduction of Area	
Hardness	
Impacts	
Stress Rupture	
Other Remarks	<i>Mechanicals based on 686 Grade 1 condition. Grades 2,3 and 4 available on request</i>

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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