



## Incoloy Alloy 925

*Incoloy Alloy 925 is a nickel-iron-chromium alloy which is age hardenable, with elements of titanium, molybdenum, copper and aluminium. Alloy 925 offers excellent resistance to corrosion and shows high strength. Incoloy Alloy 925 offers good resistance to stress corrosion cracking, crevice corrosion and numerous aqueous environments including those containing chlorides and sulphides.*

*Incoloy Alloy 925 is used in a variety of different applications where high strength and corrosion resistance in sour gas environments is important. This would include use in the oil & gas industry for parts in intermediate sour-gas wells, marine and pump shafting and high-strength piping systems and power plants condensation and pipe system in the use of sewage water to cool water.*

### Incoloy Alloy 925 Grades & Equivalents:

- UNS N09925
- NACE MR-01-75
- ASTM B637
- ASTM B805

### Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.03	0.50	1.00	0.03	0.03	19.5-22.5	42.0-46.0	2.50-3.50
W	N	Cb/Nb	Ti	Co	Cu	Al	B
		0.50	1.90-2.40		1.50-3.00	0.10-0.50	
V	Fe	Mg	Ta	Ca	O	Bi	Se
	22.0 min						
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN

### Typical Mechanical Properties

Tensile Strength	965 N/mm <sup>2</sup> min
0.2% Proof Stress	724 N/mm <sup>2</sup> min
Elongation	18%
Reduction of Area	25%
Hardness	346 HBw max
Impacts	
Stress Rupture	
Other Remarks	<i>Mechanicals based on material in Cold Worked, Solution Annealed and Aged Condition 0.625"-3" inclusive</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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