Ualloy925 (Alloy 925)

Alloy925 refers to Incoloy 925, is nickel-iron-chromium based superalloy, supplied in the solution annealed condition and an aged condition.
Alloy 925| Incoloy 925 is a cost-effective substitute for alloy 718 in acid corrosion environments, and has excellent corrosion resistance consistent with Alloy 825.
Pitting Resistance Equivalent number (PREN) of it reaches above 26.

Incoloy 925 Datasheet

Alloy 925 Chemical Composition

	Ni	Mn	C	Si	S	Cr	Al	Ti	Mo	P	B	V
Min	**24**					**13.5**		**1.9**	**1**		**0.001**	**0.1**
Max	**27**	**2**	**0.08**	**1**	**0.03**	**16**	**0.35**	**2.35**	**1.5**	**0.04**	**0.01**	**0.5**

Alloy 925| Incoloy 925 Mechanical Property

Grade	0.2% Yield Strength, ksi (MPa)	Tensile Strength, min ksi (MPa)	Elongation in 4D Minimum %	Reduction of Area, Min %		Hardness HRC (HBW)	Grain Size
				QTC thickness ≤10in (254mm)	QTC thickness > 10in (254mm)		
Alloy925 Incoloy925	**110-140（758-965）**	**140（965）**	**18**	**25**	**20**	**26-38（268-346）**	**Finer than No.2**

Web: Ualloy.com
Tel: 86-0571-63255636
Fax: 86-0571-63256181
E: sales@ualloy.com

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Alloy 925| Incoloy 925 Applications

▶Downhole and surface gas well components

▷Oil and gas drilling equipment parts
▷Marine pump shafts
▷Valves
▷Hangers
▷Landing joints
▷Pipes
▷Tool joints
▷Packers

Inconel is a trademark of high-performance nickel-based alloys developed by Special Metals Corporation.
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Incoloy provide a more cost-effective solution for applications requiring high-temperature and corrosion resistance – achieved by lowering the nickel content.

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