

Alloy 925 (UNS N09925) is an age hardenable nickel-iron-chromium alloy with additions of molybdenum, copper, titanium and aluminum, providing a combination of high strength and excellent corrosion resistance. The high nickel content also gives resistance to chloride ion stress-corrosion cracking

It is used in the petroleum industry for applications such as gas well components, valves and tubing, as well as finding use in high-strength piping systems.

Incoloy 925 /Specifications:

Grade	UNS
Alloy 925	N09925

Incoloy 925 chemical composition:

Grade	%	Ni	Cr	Fe	Mo	Cu	Ti	Al	Mn	Si	Nb	C	S
Alloy 925	Min	42	19.5	bal	2.5	1.5	1.9	0.1					
	Max	46	22.5		3.5	3.0	2.4	0.5	1.0	0.5	0.5	0.03	0.03

Incoloy 925 Mechanical properties(Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥ 650	≥ 300	≥ 30

Incoloy 925 Standards

Bar	Forging	Sheet / Strip	Pipe
ASTM B649	ASTM B805	ASTM B872	ASTM B983

Incoloy 925 Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm,1.0mm,1.2mm,2.0mm,2.4mm,3.2mm,3.8mm,4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W