

Chemical Industry Incoloy 925 Wire 172 MPA Resistance

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:
- China Victory CE,ROHS,ISO 9001 Incoloy 925 Juantity: 5 Kg Negotiable Plastic film or waterproof woven bag inside, wire packed in spool put into carton,coil wire or strip wire put into wooden case 5-21 days L/C, T/T, Western Union, MoneyGram 300 tons per month



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Product Specification

Highlight:	Nickel Alloy Wire Incoloy 925, Building Incoloy Alloy 800
• Hardness:	336 HV
Melting Point:	1311-1366°C
• Surface:	Bright,Oxided
Condition:	Hard / Soft
 Elongation (≥ %): 	27%
• Density (g/m3):	8.08 G/cm3
• Yield Strength:	124 Mpa
 Tensile Strength: 	172 Mpa
Application:	Chemical Reactors, Storage Vessels, Distillation Towers
• Nickel(Min):	42-46%
• Material:	Ni Fe Cr Mo Ti Al
• Name:	Incoloy 925 Wire



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Product Description

Introduction:

Incoloy 925 alloy wire plays an important role in the chemical industry. This alloy wire is composed of elements such as nickel, iron, chromium, molybdenum, titanium and aluminum and has excellent corrosion resistance. It is widely used in equipment such as chemical reactors, storage vessels and distillation columns. The alloy wire has a tensile strength of 172 MPa, a yield strength of 124 MPa, and a density of 8.08 g/cm3. It has an elongation rate of 27% and is able to maintain stability under stress. Incoloy 925 alloy wire is available in hard or soft condition and with bright or oxidized finish. Its melting point range is 1311°C to 1366°C, allowing it to maintain stability in high temperature environments. In addition, the alloy wire has a hardness of 336 HV, making it resistant to wear and corrosion in the chemical industry. In summary, Incoloy 925 alloy wire is an important material choice in the chemical industry. It can meet the high requirements of chemical reactors, storage vessels, distillation towers and other equipment, ensuring the safety and reliability of the chemical industry.

Parameter:

Chemical Composition Requirement		
The Chemical Composition of Incoloy 925, %		
Nickel	42.0-46.0	
Chromium	19.5-22.5	
Iron	≥22.0	
Molybdenum	2.5-3.5	
Copper	1.5-3.0	
Titanium	1.9-2.4	
Alumium	0.1-0.5	
Manganese	≤1.00	
Silicon	≤0.50	
Niobium	≤0.50	
Carbon	≤0.03	
Sulfur	≤0.30	

Mechanical Properties of Incoloy 925

Tensile Stren	gth, min.	Yield Strength, min.		Elongation, min.	Hardness, min.
Мра	ksi	Мра	ksi	%	HRC
1210	176	815	118	24	36.5

Physical Properties of Incoloy 925

Density	Melting Range		Specific Heat		Electrical Resistivity
g/cm3	°F	O°	J/kg.k	Btu/lb. °F	μΩ·m
8.08	2392-2490	1311-1366	435	0.104	1166

Product Forms and Standards

Product Form	Standard
Rod, bar & Wire	ASTM B805
Plate, sheet & strip	ASTM B872
Seamless pipe and tube	ASTM B983
Forging	ASTM B637



Shape	Size(mm)
Wire	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made

Characteristic:

Corrosion resistance: Incoloy 925 alloy wire shows excellent corrosion resistance in the chemical industry environment. It can resist the erosion of acidic, alkaline and oxidizing media and extend the service life of equipment.

Oxidation resistance: This alloy wire has good oxidation resistance and can maintain stable performance in high temperature and oxidizing environments, and is suitable for high temperature chemical processes.

High strength and hardness: It has excellent mechanical strength and hardness and can withstand high stress and pressure in chemical industry equipment.

Resistance to stress corrosion cracking: Incoloy 925 alloy wire is resistant to stress corrosion cracking and is suitable for stress corrosion environments in the chemical industry.

Advantage:

Corrosion resistance: Incolog 925 alloy wire can resist corrosive media in the chemical industry, reduce equipment corrosion damage and maintenance frequency, and improve equipment reliability and stability.

High-temperature stability: This alloy wire can maintain stable performance in high-temperature chemical processes, resist high-temperature oxidation and thermal stress, and is suitable for high-temperature reactions and processing processes.

Strength and hardness: It has good mechanical strength and hardness, and can withstand high stress and pressure under the harsh working conditions of chemical industry equipment, improving the durability of the equipment.

Resistance to stress corrosion cracking: Incoloy 925 alloy wire shows resistance to stress corrosion cracking in stress corrosion environments, increasing the service life of the equipment.

Specific applications:

Chemical reactor: Incoloy 925 alloy wire can be used to manufacture key components such as linings, pipes and fittings of chemical reactors.

Corrosive media treatment: Suitable for manufacturing equipment for processing corrosive media in the chemical industry, such as storage containers, transportation pipelines, etc.

Petrochemical process: It can be used in the manufacturing of processing equipment for high temperature and corrosive media in the petrochemical industry, such as cracking furnaces, distillation towers, etc.

High-temperature oxidizing environment: Suitable for equipment manufacturing in high-temperature oxidizing environments, such as high-temperature furnaces and burners.

Other relevant knowledge points:

Chemical industry: The chemical industry refers to the industry that produces chemicals and chemical products using chemical methods and processes. The chemical industry is widely used in petroleum, petrochemical, metallurgy, energy, environmental protection and other fields, and is one of the important components of modern industry.

Material selection: In the chemical industry, material selection is crucial. As a high-quality material, Incoloy 925 alloy wire has corrosion resistance, high temperature stability and stress corrosion cracking resistance, and can meet the stringent requirements in the chemical industry.

Safety considerations: In the chemical industry, safety is a primary concern. Equipment manufactured using Incoloy 925 alloy wire can provide excellent corrosion resistance and high temperature stability, helping to reduce the risk of accidents and ensure production safety.

Process optimization: Equipment manufactured using Incoloy 925 alloy wire has oxidation resistance and stress corrosion cracking resistance, and can support high temperature, high pressure and corrosive media processing in the chemical industry, achieving process optimization and efficiency improvement.

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Q & A:

Q: What is the corrosion resistance of Incoloy 925 Wire? A: Incoloy 925 Wire exhibits exceptional corrosion resistance, particularly in sour gas environments containing hydrogen sulfide (H2S).

Q: What industries commonly use Incoloy 925 Wire?

A: Incoloy 925 Wire is commonly used in the oil and gas industry, specifically in downhole and subsea applications.

