



## Pharmaceutical Equipment Nickel Based Incoloy 825 Wire With Higher Intensity

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS, ISO 9001
- Model Number: Incoloy 825
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Plastic film or waterproof woven bag inside, wire packed in spool put into carton, coil wire or strip wire put into wooden case
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Name: Incoloy 825 Wire
- Material: Ni Fe Cr Mo
- Nickel(Min): 38-46%
- Application: Reactors, Transfer Pipes, Mixers
- Coefficient Of Expansion: 14.0  $\mu\text{m/m } ^\circ\text{C}$  (20 – 100 $^\circ\text{C}$ )
- Modulus Of Rigidity: 75.9 KN/mm<sup>2</sup>
- Density (g/m<sup>3</sup>): 8.14 G/cm<sup>3</sup>
- Modulus Of Elasticity: 196 KN/mm<sup>2</sup>
- Elongation ( $\geq$  %): 30%
- Melting Point: 1400 $^\circ\text{C}$
- Tensile Strength: 550 MPa
- Yield Strength: 220 MPa
- Condition: Hard / Soft
- Surface: Bright, Oxided
- Highlight: Nickel Alloy Incoloy 800, Incoloy 825 Wire



### More Images



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## Product Description

### Introduction:

Incoloy 825 Wire is an alloy wire composed of elements such as nickel, iron, chromium and molybdenum. This alloy wire is suitable for reactors, conveying pipes, stirrers and other fields.

Key parameters include a nickel content between 38-46% and a density of 8.14 g/cm<sup>3</sup>. Its linear expansion coefficient is 14.0  $\mu\text{m/m}\cdot\text{C}$  (in the range of 20-100  $^{\circ}\text{C}$ ), its stiffness modulus is 75.9 kN/mm<sup>2</sup>, and its elastic modulus is 196 kN/mm<sup>2</sup>. In addition, the alloy wire has an elongation of more than 30%, a tensile strength of 550 MPa, and a yield strength of 220 MPa.

Incoloy 825 Wire is widely used in reactors, pipelines and stirrers. It has excellent corrosion resistance and high temperature stability, and can withstand chemical reactions and high temperature environment requirements. This alloy wire can be used to manufacture corrosion-resistant equipment and components, ensuring the safety and reliability of operations.

Incoloy 825 Wire is available in two conditions: hard and soft. Surface treatments are available in bright and oxidized finishes to suit different needs.

To sum up, Incoloy 825 Wire is an alloy wire widely used in reactors, transportation pipes, mixers and other fields. With its excellent physical and mechanical properties, as well as corrosion resistance and high temperature stability, it can meet the requirements of various chemical industries and high temperature environments.

### Parameter:

Chemical Composition (%)									
C	Si	Mn	S	Mo	Ti	Cr	Ni	Fe	Cu
≤0.05	≤0.50	≤1.00	≤0.03	≤2.5~3.5	≤0.6~1.2	19.5~23.5	38.0~46.0	≥22.0	1.5~3.0

Standard			
Sheet/Plate	Round bar/Wire	Pipe	Tube
ASME SB-424 ASME SB-906	ASME SB-425	ASME SB-423 ASME SB-829 ASME SB-163 ASME SB-751 ASME SB-775	ASME SB-704 ASME SB-705 ASME SB-751 ASME SB-775

Mechanical Properties				
Status	Tensile Strength (Rm N/mm <sup>2</sup> )	Yield strength (RP0.2N/mm <sup>2</sup> )	Elongation(A5%)	HB
Solution treatment	550	220	30	≤200

Incoloy 825 (NS142) similiaer trademark			
UNS	Trademark	JIS	W.Nr
N08825	Incoloy825	NCF825	2.4858



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 825 alloy wire exhibits excellent corrosion resistance and can resist corrosion of pharmaceutical equipment by drugs, chemicals, and acidic/alkaline media.

**Temperature stability:** This alloy wire has good high-temperature stability and can maintain its mechanical properties and corrosion resistance in high-temperature environments.

**Strength and Hardness:** Incoloy 825 alloy wire has high strength and hardness and is suitable for withstanding the mechanical stress and pressure in pharmaceutical equipment.

### Advantage:

**Corrosion resistance:** Incoloy 825 alloy wire has excellent corrosion resistance in pharmaceutical equipment, which can extend the service life of the equipment and improve its stability and reliability.

**Temperature adaptability:** The alloy wire is able to maintain its performance over a wide temperature range and is suitable for different processes and operating conditions in pharmaceutical equipment.

**Excellent mechanical properties:** Incoloy 825 alloy wire has good strength and hardness and can withstand the mechanical stress and pressure in pharmaceutical equipment, improving the reliability of the equipment.

### Specific applications:

**Reactors and storage tanks:** Incoloy 825 alloy wire can be used to manufacture reactors and storage tanks in pharmaceutical equipment to resist corrosion of equipment by drugs and chemicals and ensure product quality and safety.

**Delivery Pipes and Valves:** Suitable for manufacturing pipes and valves delivering pharmaceuticals and chemicals to provide corrosion resistance and temperature stability.

**Mixers and stirrers:** Mixers and stirrers can be used in the manufacture of pharmaceutical equipment for mixing and stirring of drugs and chemicals.

### Other relevant knowledge points:

**Equipment Cleaning and Disinfection:** In pharmaceutical equipment manufactured with Incoloy 825 alloy wire, proper cleaning and disinfection procedures are critical to ensuring the hygiene and safety of the equipment.

**Compliance and standards:** During the manufacturing process of pharmaceutical equipment, follow applicable specifications and standards, such as cGMP (Good Manufacturing Practice), etc., to ensure product quality and compliance.

### contact us

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### Q & A:

Q: What is the corrosion resistance of Incoloy 825 Wire?

A: Incoloy 825 Wire offers exceptional corrosion resistance in various corrosive environments, including sulfuric acid, phosphoric acid, and seawater.

Q: What industries commonly use Incoloy 825 Wire?

A: Incoloy 825 Wire finds applications in a wide range of industries, including chemical processing, oil and gas, marine, and pollution control.



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