



## Food Processing N08825 Incoloy 825 Wire With High Temperature Stability

Our Product Introduction

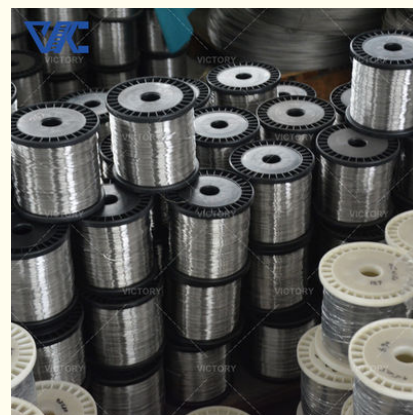
### Basic Information

- 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: Heat Exchangers, Reactors, Transfer Pipes
- 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/m3): 8.14 G/cm3
- 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: **UNS N08810 Incoloy 800H 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 widely used in heat exchangers, reactors, transportation pipelines 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.

In the field of food processing, Incoloy 825 Wire is widely used in equipment such as heat exchangers, reactors and conveying pipelines. It has good corrosion resistance and high temperature stability, and can withstand chemicals and high temperature environments during food processing. The alloy wire can be used to manufacture corrosion-resistant equipment and components, ensuring the safety and reliability of food processing.

To sum up, Incoloy 825 Wire is an alloy wire widely used in food processing fields. With its excellent physical and mechanical properties, as well as corrosion resistance and high temperature stability, it can meet the requirements of food processing equipment and provide reliable material solutions for the food processing industry.

### 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 shows excellent corrosion resistance and can resist corrosive media such as acids, alkalis, and salts during food processing, extending the service life of equipment.

**High-temperature stability:** This alloy wire has good high-temperature stability and can maintain its performance in high-temperature environments, making it suitable for high-temperature food processing.

**Mechanical Strength:** Incoloy 825 alloy wire has high strength and hardness and can withstand the mechanical stress and pressure in food processing equipment.

### Advantage:

**Food safety:** Incoloy 825 alloy wire is a food-safe material that does not produce substances harmful to food and can ensure food hygiene and quality.

**Corrosion resistance:** This alloy wire has excellent corrosion resistance in food processing environments and can resist erosion by corrosive media such as food acid and alkali, reducing corrosion damage to equipment and the risk of food contamination.

**Temperature adaptability:** Incoloy 825 alloy wire can maintain stable performance during high-temperature food processing and will not be deformed or damaged by high-temperature environments.

**Long life and reliability:** Due to its excellent corrosion resistance and high temperature stability, Incoloy 825 alloy wire can extend the service life of equipment and improve equipment reliability.

### Specific applications:

**Heat exchanger:** Incoloy 825 alloy wire can be used to manufacture heat exchangers in food processing equipment for heating or cooling food and food ingredients.

**Reactors and Storage Tanks:** Suitable for manufacturing reactors and storage tanks in food processing to contain and process food raw materials and finished products.

**Conveying equipment:** Can be used to manufacture conveying equipment in food processing, such as conveyor belts and conveying pipes, to transport food and food ingredients safely and efficiently.

### Other relevant knowledge points:

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

**Hygiene standards and specifications:** During the manufacturing process of food processing equipment, follow applicable hygiene standards and specifications, such as food GMP (Good Manufacturing Practice), etc., to ensure product hygiene and quality compliance.

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Oem service:  
 Welcome customized size  
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### Q & A:

Q: How is Incoloy 825 Wire packaged?

A: Incoloy 825 Wire is typically packaged on plastic or wooden spools for convenient handling and transportation.

Q: What measures are taken to ensure the safe transportation of Incoloy 825 Wire?

A: Incoloy 825 Wire is carefully packaged on spools, protected with plastic film or cardboard, and placed in sturdy boxes or crates to ensure its safe transportation and prevent any damage during transit.



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