



Chemical Industry Nickel Chrome Alloy Incoloy 825 Wire With Corrosion Resistance

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

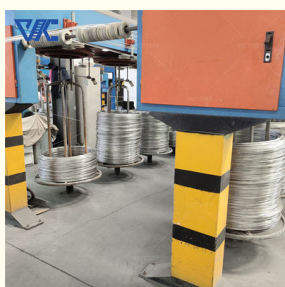


Product Specification

- Name: Incoloy 825 Wire
- Material: Ni Fe Cr Mo
- Nickel (Min): 38-46%
- Application: Chemical Reactors, Distillation Equipment, Pipes And Valves
- Coefficient Of Expansion: $14.0 \mu\text{m/m } ^\circ\text{C}$ (20 – 100°C)
- Modulus Of Rigidity: 75.9 KN/mm²
- Density (g/cm³): 8.14
- Modulus Of Elasticity: 196 KN/mm²
- Elongation (\geq %): 30%
- Melting Point: 1400°C
- Tensile Strength: 550 MPa
- Yield Strength: 220 MPa
- Condition: Hard / Soft
- Surface: Bright, Oxided



More Images



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Product Description

Introduction:

Incoloy 825 alloy wire is a corrosion-resistant alloy wire, mainly composed of nickel, chromium and copper, with excellent properties for chemical industry applications. Its chemical composition includes nickel (minimum content is 38%), chromium (19.5-23.5%), copper (1.5-3.0%), and contains elements such as iron, molybdenum and titanium.

This alloy wire has excellent corrosion resistance and performs well in acidic, alkaline and oxidizing environments. It has good resistance to stress corrosion cracking, excellent resistance to chloride ion stress corrosion cracking, and good corrosion resistance to various chemical media such as sulfuric acid, sulfate, phosphoric acid and acetic acid.

Incoloy 825 alloy wire is widely used in the chemical industry, including acid media storage and processing equipment, petrochemical equipment, chemical reactors, acid gas scrubbers, seawater treatment equipment, distillation units, oil extraction and processing equipment, etc. It is also commonly used on offshore platforms and well equipment in oil and gas extraction, as well as in various corrosion-resistant applications in the power industry and marine engineering.

In summary, Incoloy 825 alloy wire is an alloy wire with excellent corrosion resistance and is suitable for various applications in the chemical industry. Its properties include excellent resistance to stress corrosion cracking and broad corrosion resistance, making it ideal for use in chemical equipment, petrochemical equipment and offshore engineering.

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 ²)	Yield strength (RP0.2N/mm ²)	Elongation(A5%)	HB
Solution treatment	550	220	30	≤200

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

Characteristic:

Corrosion resistance: Incoloy 825 alloy wire exhibits excellent corrosion resistance and can resist a variety of corrosive media, including strong acids, alkalis, oxides and organic acids.

Resistance to stress corrosion cracking: This alloy wire has excellent resistance to stress corrosion cracking and maintains good corrosion resistance in high stress environments.

High temperature stability: Incoloy 825 alloy wire has good stability in high temperature environments, showing high temperature strength and durability.

Advantage:

Corrosion resistance: Incoloy 825 alloy wire has excellent corrosion resistance and can maintain outstanding performance in harsh chemical media and extend the service life of equipment.

Resistance to stress corrosion cracking: This alloy wire can resist stress corrosion cracking in high stress environments, reducing the risk of equipment failure.

Versatility: Incoloy 825 alloy wire is suitable for the manufacture of a variety of equipment and components in the chemical industry to meet different process requirements.

Specific applications:

Chemical Reactor: Used to manufacture chemical reactor linings, liners and support structures to resist corrosive media and high temperature environments.

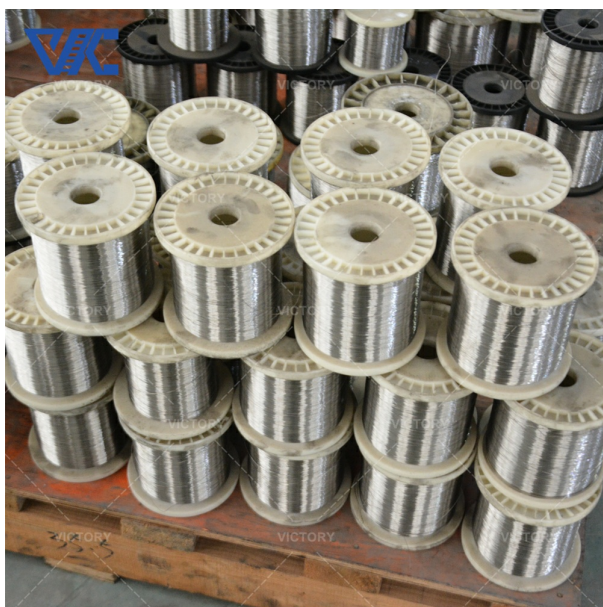
Distillation equipment: Suitable for the manufacture of distillation towers, evaporators, condensers and other equipment to prevent media corrosion and stress corrosion cracking.

Pipes and Valves: Used to manufacture corrosion-resistant pipes and valves for transporting acidic and alkaline media.

Other relevant knowledge points:

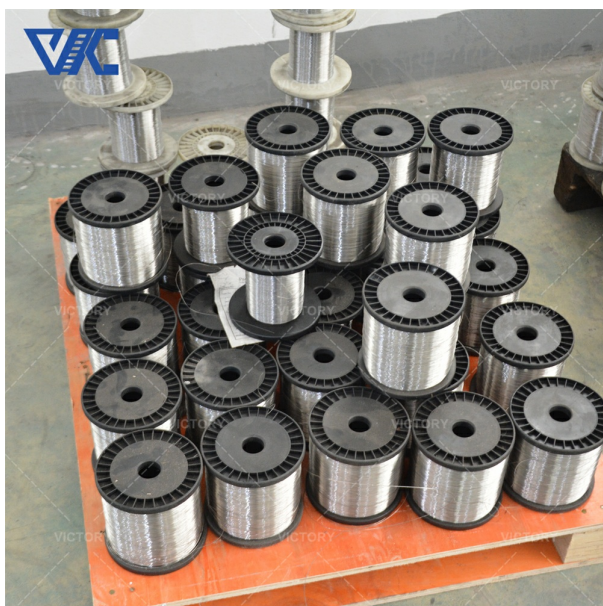
Material selection: According to the specific medium and process requirements, select the appropriate Incoloy 825 alloy wire specifications and temperature range to ensure its corrosion resistance and durability.

Equipment maintenance: Regularly inspect and maintain chemical equipment and its components, including Incoloy 825 alloy wire, to ensure its performance and longevity and to avoid potential failures.



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

contact us
email:victory@dlx-alloy.com
 Oem service:
 Welcome customized size
 We are experience factory for OEM&ODM service



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