



Oil And Gas Industry Nickel Alloy Wire Incoloy 825 Wire With High Temperature Performance

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

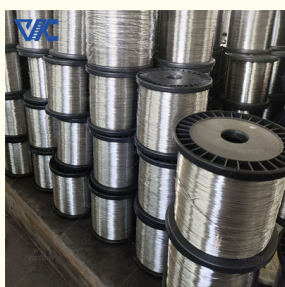


Product Specification

- Product Name: Incoloy 825 Wire
- Material: Ni Fe Cr Mo
- Nickel(Min): 38-46%
- Application: Pipes And Valves, Petroleum Refining Equipment, Oil Well Equipment
- Coefficient Of Expansion: 14.0 $\mu\text{m/m } ^\circ\text{C}$ (20 – 100 $^\circ\text{C}$)
- Modulus Of Rigidity: 75.9 KN/mm²
- Density (g/m3): 8.14 G/cm3
- Modulus Of Elasticity: 196 KN/mm²
- Elongation (\geq %): 30%
- Melting Point: 1400 $^\circ\text{C}$
- Tensile Strength: 550 MPa
- Yield Strength: 220 MPa
- Condition: Hard / Soft
- Sureface: Bright,Oxided



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Product Description

Introduction:

Incoloy 825 Wire is a high performance alloy wire composed of elements such as nickel, iron, chromium and molybdenum. The alloy wire is suitable for pipes and valves, petroleum refining equipment, and oil well equipment.

Key parameters include a nickel content between 38-46% and a density of 8.14 g/cm³. Its linear expansion coefficient is 14.0 μm/m·C (in the range of 20-100 °C), its stiffness modulus is 75.9 kN/mm², and its elastic modulus is 196 kN/mm². 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 applications such as pipes and valves, petroleum refining equipment, and oil well equipment. It has excellent corrosion resistance and high temperature stability and can withstand the corrosive and high temperature environments found in petroleum and petrochemical processes. At the same time, it has good mechanical properties and can meet the requirements of high stress and pressure, ensuring the reliability and durability of equipment operation.

To sum up, Incoloy 825 Wire is a high-performance alloy wire widely used in pipes, valves, petroleum refining equipment, oil well equipment and other fields. With its excellent physical and mechanical properties, it can cope with harsh working conditions and provide reliable material solutions for the petroleum and petrochemical 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 ²)	Yield strength (RP0.2N/mm ²)	Elongation(A5%)	HB
Solution treatment	550	220	30	≤200

Incoloy 825 (NS142) similar 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 corrosive media in the oil and gas industry, including acid gases, salt water, and sulfides.

High temperature stability: This alloy wire has good stability in high temperature environments and can withstand high temperature conditions in the oil and gas industry.

Resistance to hydrogen embrittlement: Incoloy 825 alloy wire is resistant to hydrogen embrittlement and can maintain good performance in the presence of hydrogen.

Advantage:

Corrosion resistance: Incoloy 825 alloy wire has excellent corrosion resistance in the oil and gas industry, extending the service life of equipment and reducing maintenance costs.

High-temperature stability: This alloy wire can maintain stable performance in high-temperature environments and is not easily deformed or damaged. It is suitable for applications in the high-temperature oil and gas industry.

Resistance to hydrogen embrittlement: Incoloy 825 alloy wire can resist hydrogen embrittlement, ensuring the safety and reliability of equipment.

Specific applications:

Pipes and Valves: Used in the manufacture of key components such as oil and gas transmission pipelines and valves to resist corrosion and high temperature environments.

Petroleum refining equipment: suitable for various equipment in the petroleum refining process, such as furnace tubes, heat exchangers and separators, etc., to meet the requirements for corrosion resistance and high temperature stability.

Oil well equipment: Used to manufacture oil well equipment, such as casing, wellhead equipment, and drill pipe, to cope with corrosion and high temperature environments during oil and natural gas extraction.

Other relevant knowledge points:

Material selection: Choosing the right materials is critical to the performance and longevity of oil and gas industry equipment. Incoloy 825 alloy wire is an ideal choice due to its excellent corrosion resistance and high temperature stability.

Equipment Maintenance: Regularly inspect and maintain oil and gas industry equipment and its components, including Incoloy 825 alloy wire, to ensure their performance and longevity and to prevent potential failures.

contact us

email:victory@dlx-alloy.com

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Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu