



## Marine Industry Nickel Alloy Wire Inconel 825 Wire With Corrosion Resistance

Our Product Introduction

for more products please visit us on [victory-alloy.com](http://victory-alloy.com)

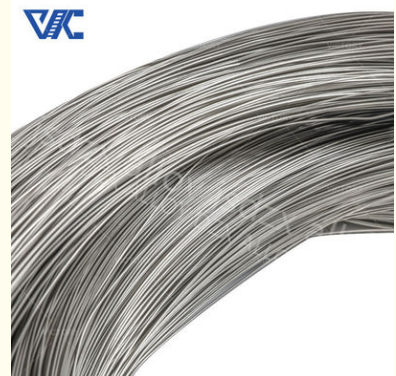
### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 825
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel 825 wire packed in Spool Carton box, Coil package with polybag, then in woodencase
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Product Name: Inconel 825 Wire
- Material: Ni Cr Fe
- Nickel(Min): 38-46%
- Density: 8.14 G/cm3
- Melting Point: 1370-1400°C
- Modulus Of Elasticity: 196 GPa
- Thermal Conductivity: 10.3 W/(m·K)
- Linear Expansion Coefficient: 13.2 µm/m·K
- Application: Marine Industry
- Sureface: Bright,Oxided
- Yield Strength: 345 MPa
- Tensile Strength: 690 MPa
- Elongation: 45%
- Highlight: corrosion resistant inconel alloy, . . . . .



### More Images



### Product Description

## Introduction:

Inconel 825 Wire is a high performance alloy wire widely used in the marine industry. Due to its excellent corrosion resistance and resistance to seawater erosion, it is widely used in various applications in marine environments. Whether it is subsea oil well pipelines, offshore platform equipment or seawater treatment equipment, Inconel 825 Wire can withstand the challenges posed by corrosive substances such as salt, chlorides and sulfides in seawater. Its superior performance ensures long life and reliability of equipment while reducing maintenance and replacement costs.

## Parameter:

### Chemical composition:

Nickel (Ni): 38-46%

Chromium (Cr): 19.5-23.5%

Molybdenum (Mo): 2.5-3.5%

Copper (Cu): 1.5-3.0%

Physical properties:

Density: 8.14 g/cm<sup>3</sup>

Melting point: 1370-1400°C

Modulus of elasticity: 196 GPa

Thermal conductivity: 10.3 W/(m·K) (room temperature)

Linear expansion coefficient: 13.2 μm/m·K (room temperature)

### Mechanical behavior:

Yield strength: 345 MPa (room temperature)

Tensile strength: 690 MPa (room temperature)

Elongation: 45% (room temperature)

Chemical Composition (%)										
C	Si	Mn	S	Mo	Ti	Cr	Ni	Al	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	≤0.2	≥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



Size Range (mm)	
Wire	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.50-2.5)*(5-180)
Tube	custom made
Plate	custom made

Specification	Title
B163	Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes
B423	Nickel-Iron-Chromium-Molybdenum-Copper Alloy (UNS N08825 and N08221)* Seamless Pipe and Tube
B424	Ni-Fe-Cr-Mo-Cu Alloy (UNS N08825 and UNS N08221)* Plate, Sheet, and Strip
B425	Ni-Fe-Cr-Mo-Cu Alloy (UNS N08825)
B704	Welded UNS N06625 and UNS N08825 Alloy Tubes
B705	Nickel-Alloy (UNS N06625 and N08825) Welded Pipe
B751	General Requirements for Nickel and Nickel Alloy Welded Tube

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

#### Characteristic:

Corrosion resistance: Inconel 825 alloy wire has excellent resistance to corrosion in seawater and various marine environments, including seawater corrosion, chloride stress corrosion cracking and marine atmospheric corrosion.

High temperature performance: Inconel 825 alloy wire can maintain good mechanical properties and creep resistance in high temperature environments, and is suitable for high temperature applications in the marine industry.

Oxidation resistance: Inconel 825 alloy wire has excellent oxidation resistance and can be used stably for a long time in an oxidizing environment.

#### Advantage:

Corrosion resistance: Inconel 825 alloy wire can resist the erosion of seawater, salt water and other corrosive media in marine environments, extending the service life of equipment and components.

High strength: Inconel 825 alloy wire has good tensile strength and ductility, and can withstand loads in high stress and pressure environments.

Processability: Inconel 825 alloy wire is easy to process and manufacture into various shapes, making it suitable for the manufacture of complex parts and devices.

#### Application:

Marine equipment: Inconel 825 alloy wire is widely used in seawater treatment equipment, offshore oil platforms, marine heat exchangers and pipes and valves in corrosive environments in the marine industry.

Corrosive environment: Inconel 825 alloy wire is used in pumps, valves, pipelines and seawater treatment equipment in marine corrosive environments. It can effectively resist the corrosion of seawater and salt water.

Chemical processing: Inconel 825 alloy wire is used in the chemical processing industry for the manufacture of corrosion-resistant equipment and reactors, and is suitable for processing sulfuric acid, hydrochloric acid and other corrosive media.

In summary, Inconel 825 alloy wire is widely used in the marine industry due to its excellent corrosion resistance, high temperature performance and oxidation resistance, and is suitable for marine equipment, corrosive environments, chemical processing and other fields.



#### Q & A:

Q: How does Inconel 825 wire perform in high-temperature environments?

A: Inconel 825 wire exhibits excellent high-temperature strength and oxidation resistance, making it suitable for applications in elevated temperature environments such as chemical processing and heat exchangers.

Q: What industries benefit from the high-temperature capabilities of Inconel 825 wire?

A: Inconel 825 wire is commonly used in industries such as petrochemical, power generation, and aerospace, where its ability to withstand high temperatures and maintain its mechanical properties is crucial for applications such as furnace components and gas turbines.



**Changzhou Victory Technology Co., Ltd**



+8619906119641



[victory@dlx-alloy.com](mailto:victory@dlx-alloy.com)



[victory-alloy.com](http://victory-alloy.com)

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