



## Marine Industry Hastelloy C276 Nickel Alloy Wire With Excellent Stress Resistance

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: HC-276
- Minimum Order Quantity: 5kg
- 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: 7 to 20 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Name: Hastelloy C276 Wire
- Type: Nickel Alloy Wire
- Grade: Ni Cr Mo
- Elongation(%): 30%
- Density: 8.89 G/cm3
- Brinell Hardness HB: ≤220
- Tensile Strength Rm N/mm²: 760MPA
- Yieldstrength R P0.2 N/mm²: 345MPA
- Melting Point: 1325-1370°C
- Electrical Resistivity 24°C : 1.30 Microhm-m
- Thermal Expansion Coefficient 20-1000°C : 16.5 1/K



### More Images



## Product Description

### Product Description:

#### Hastelloy Wire Product Overview

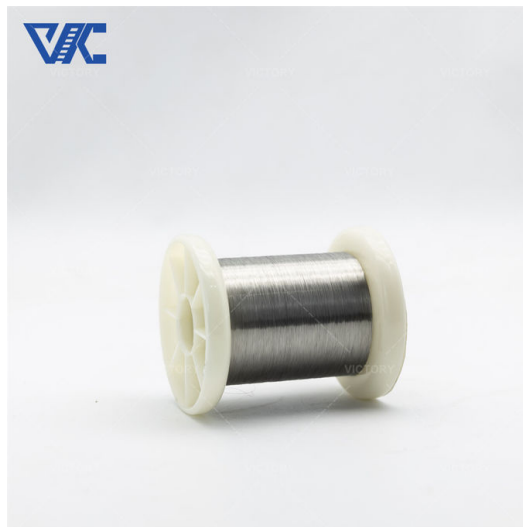
Hastelloy C276 alloy wire has a wide range of applications in the marine industry. The marine environment places extremely high requirements on the corrosion resistance and seawater corrosion resistance of materials, and Hastelloy C276 alloy wire is an excellent choice.

Due to the high nickel, chromium and molybdenum content of Hastelloy C276 alloy, it has excellent corrosion resistance and can withstand corrosive media in marine environments such as sea water, salt spray, marine climate and marine life. This makes Hastelloy C276 alloy wire an ideal material for manufacturing equipment and components in the marine industry.

In the marine industry, Hastelloy C276 alloy wire is widely used in key areas such as offshore oil platforms, subsea pipelines, ships and marine measurement equipment. It is used to manufacture corrosion-resistant pipes, valves, pumps and connections to ensure long-term stable operation of marine industrial equipment.

In addition, Hastelloy C276 alloy wire also has good resistance to seawater corrosion and marine organism adhesion, which can reduce the impact of marine organisms on equipment and structures and extend their service life.

All in all, Hastelloy C276 alloy wire plays an important role in the marine industry. Its excellent corrosion resistance and resistance to seawater corrosion make it an ideal choice for manufacturing marine industrial equipment and components, ensuring the reliability and durability of equipment in harsh marine environments.



### Characteristic:

Corrosion resistance: Hastelloy C276 alloy wire exhibits excellent corrosion resistance and has excellent resistance to corrosion in seawater, salt water and marine atmospheric environments.

Resistance to stress corrosion cracking: Alloy wire has excellent resistance to stress corrosion cracking and can operate stably for a long time in high stress environments.

High strength: Hastelloy C276 alloy wire has high strength and can withstand high pressure and large tension in the marine environment.

Magnetism: Alloy wire has low magnetism and is suitable for marine applications that are sensitive to magnetism.

### Technical Parameters:

Hastelloy Alloy	Ni	Cr	Co	Mo	FE	W	Mn	C	V	P	S	Si
C276	Balance	14.5-16.5	2.5 Max	15.0-17.0	4.0-7.0	3.0-4.5	1.0 Max	0.01 Max	0.35 Max	0.04 Max	0.03 Max	0.08 Max

### Advantage:

Corrosion resistance: Hastelloy C276 alloy wire can resist seawater corrosion in marine environments, extending the service life of equipment.

Resistance to stress corrosion cracking: Alloy wire has excellent resistance to stress corrosion cracking and can remain stable in high-pressure and high-stress environments.

High strength: Alloy wire has high strength and can withstand high tension and extrusion forces in the marine industry.

High temperature stability: Hastelloy C276 alloy wire can maintain good mechanical properties and structural stability in high temperature environments.

### Application:

Offshore platform components: Hastelloy C276 alloy wire can be used to manufacture structural components, steel cables and high-pressure pipelines of offshore platforms, etc. It has excellent corrosion resistance and strength in harsh marine environments.

Seawater treatment equipment: Alloy wire is suitable for manufacturing seawater desalination equipment, seawater coolers and seawater pumps, etc., and can resist seawater corrosion and stress corrosion cracking.

Subsea oil and gas pipelines: This alloy wire can be used to manufacture subsea oil and gas pipelines and connectors, with good corrosion resistance and high strength.

Ship components: Hastelloy C276 alloy wire can be used to manufacture ship propellers, hull structures, seawater treatment systems and other components, providing excellent corrosion resistance and high temperature stability.

### Other relevant knowledge points:

The corrosion resistance of Hastelloy C276 alloy wire makes it one of the important materials in the marine industry and can be used to replace traditional materials such as stainless steel and nickel-based alloys.

In the marine industry, the manufacturing and processing of alloy wire requires strict control of alloy composition, temperature and processing technology to ensure product quality and performance.

Hastelloy C276 alloy wire can also be formed through processing processes such as cold drawing, hot drawing, welding and 3D printing.

The use of this alloy wire in the marine industry also requires evaluation and selection based on specific application needs and engineering design. During the design and use process, other factors need to be considered, such as temperature, pressure, fluid

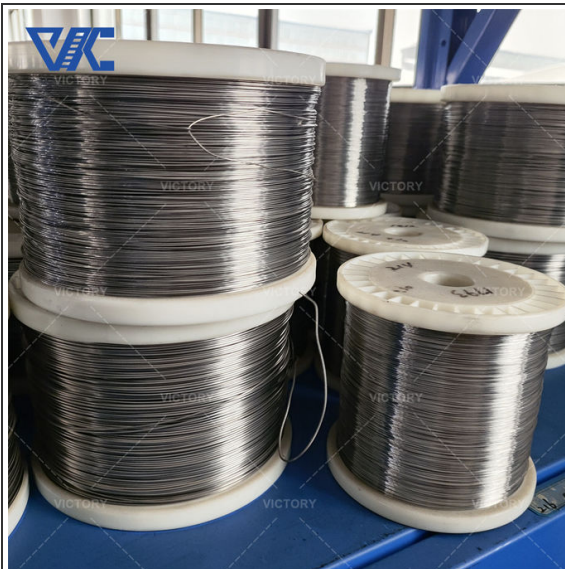
medium, structural requirements, etc., to ensure that the alloy wire can meet specific process and performance requirements.

#### Type we could offer

ASTM	Alloy	Type	UNS	Misc./Shape
ASTM B574 Bar	Hastelloy C276	Nickel	N10276	Bar
ASTM B575 Plate	Hastelloy C276	Nickel	N10276	Plate
ASTM B575 Strip	Hastelloy C276	Nickel	N10276	Strip
ASTM B575 Sheet	Hastelloy C276	Nickel	N10276	Sheet
ASTM B619 Welded Pipe	Hastelloy C276	Nickel	N10276	Welded Pipe
ASTM B622 Seamless Tubing	Hastelloy C276	Nickel	N10276	Seamless Tubing
ASTM B366 Fittings	Hastelloy C276	Nickel	N10276	Fittings
ASTM B574 Wire	Hastelloy C276	Nickel	N10276	Wire

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Oem service:  
Welcome customized size  
We are experience factory for OEM&ODM service



#### FAQ:

What is the corrosion resistance of Hastelloy HC276 alloy wire?

Hastelloy HC276 alloy wire has excellent resistance to a variety of corrosive media, including acids, alkalis, salts and oxidizing media.

What special environments is Hastelloy HC276 alloy wire suitable for?

Hastelloy HC276 alloy wire is suitable for high temperature, high pressure, and highly corrosive environments, such as chemical equipment, oil drilling, and nuclear power plants.

What is the strength of Hastelloy HC276 alloy wire?

Hastelloy HC276 alloy wire has high strength properties and can maintain good mechanical properties in high temperatures and corrosive environments.



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