



## Marine Industry Nickel Alloy Hastelloy C22 Wire With Corrosion Resistance

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS, ISO 9001
- Model Number: C22
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Nickel wire is rolled on white spool or packed with plastic film, in cartoon boxes. Special packaging requirements can also be accommodated. OEM is also acceptable
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Name: Hastelloy C22 Wire
- Type: Nickel Alloy Wire
- Material: Ni Cr Mo Fe W Co
- Application: Offshore Platform, Offshore Exploration Equipment, Body Components
- Density: 8.69 G/cm<sup>3</sup>
- Elongation(%): 45%
- Melting Point: 1,355 °C
- Thermal Conductivity: 10.1 W/m·K
- Yield Strength: 275 MPa
- Tensile Strength: 690 MPa
- Brinell Hardness HB: ≤220
- Highlight: 2.4602 hastelloy c22,  
2.4602 hastelloy c22 ASTM,  
B574 hastelloy 2.4602



### More Images



### Product Description

## Introduction:

Hastelloy C22 is a corrosion-resistant alloy widely used in the marine industry. It is a nickel-based alloy containing high proportions of nickel, chromium and molybdenum, as well as small amounts of elements such as copper and iron. Hastelloy C22 alloy has excellent corrosion resistance and is especially suitable for seawater environments and other highly corrosive media.

The marine industry has very strict requirements on materials because seawater contains salt and other chemicals that can easily cause corrosion. Hastelloy C22 alloy performs well in marine environments, resisting corrosion in seawater, oxidation, seawater corrosion, stress corrosion cracking and other forms of corrosion. Therefore, it is widely used in manufacturing key components and equipment in the marine industry.

Hastelloy C22 alloy wire is commonly used in the marine industry for welding, repair and construction applications. It can be used to manufacture seawater treatment equipment, offshore oil drilling platforms, offshore oil extraction equipment, offshore oil pipelines, offshore oil storage tanks, marine chemical storage equipment and other marine-related equipment and structures.

Overall, Hastelloy C22 alloy wire is widely used in the marine industry because of its excellent corrosion resistance, providing reliable performance and long life in harsh marine environments.

## Characteristic:

**Corrosion resistance:** Hastelloy C22 alloy wire has excellent corrosion resistance and can resist corrosive media in marine environments such as sea water, salt spray, chlorides and sulfides. This gives it good durability and reliability in marine environments.

**Oxidation resistance:** Alloy wire has good oxidation resistance and can maintain stability in high temperature and high humidity marine environments to avoid material failure caused by oxidation reactions.

**High strength and toughness:** Hastelloy C22 alloy wire has high strength and toughness, able to withstand stress and deformation in the marine environment, maintaining elasticity and structural integrity.

## Advantage:

**Corrosion resistance:** Hastelloy C22 alloy wire has excellent corrosion resistance in the marine environment and can resist salt corrosion in seawater, salt spray corrosion in the marine atmosphere, and corrosion of materials by marine organisms, thereby extending the service life of equipment and structures.

**Resistance to marine environment corrosion:** Alloy wire can resist corrosive media such as chloride and sulfide in the marine environment, reducing corrosion losses of equipment and structures, and reducing maintenance and replacement costs.

**High temperature and high humidity adaptability:** Hastelloy C22 alloy wire can still maintain stability and performance in high temperature and high humidity marine environments, and is suitable for equipment and structures that need to work in extreme marine conditions.

## Application:

**Marine structures:** Hastelloy C22 alloy wire can be used to manufacture parts and components in offshore platforms, marine facilities and marine structures, such as pipes, valves, pumps, etc. It can resist seawater corrosion and erosion from the marine environment, maintaining the stability and safety of the structure.

**Marine equipment:** Alloy wire can be used to manufacture various equipment and equipment in the marine industry, such as marine exploration equipment, marine mining equipment, offshore wind power equipment, etc. It can withstand corrosion and pressure in seawater, salt spray and marine environments, ensuring the reliability and durability of the equipment.

**Ships and marine vehicles:** Hastelloy C22 alloy wire can be used in the manufacture of ships and marine vehicles, such as hull components, propulsion systems, marine navigation equipment, etc. It resists seawater corrosion and the erosion of the marine environment, providing the ship's structural strength and durability.

## Other relevant knowledge points:

When selecting and using Hastelloy C22 alloy wire in the marine industry, it is necessary to consider the characteristics and requirements of the marine environment, such as salinity, temperature, pressure, etc., and select the appropriate alloy wire diameter, wire diameter, elastic modulus, etc. based on the specific application scenario. parameter.

Hastelloy C22 alloy wire also has good welding performance and can be connected and assembled with other materials through welding and other processes to meet the needs of complex structures and systems.

In the marine industry, Hastelloy C22 alloy wire can also be used to manufacture seawater desalination equipment, marine chemical treatment equipment, marine heat exchangers, etc., to meet the needs of the development and utilization of marine resources.

Note that although Hastelloy C22 alloy wire has good corrosion resistance, careful material selection and engineering design are still required under extreme conditions, such as high temperature, high pressure, and strong acid and alkali environments. In short, Hastelloy C22 alloy wire has excellent corrosion resistance, high strength and toughness in the marine industry. It is suitable for marine structures, marine equipment and ships and other fields, providing reliable material solutions for the marine industry.

## Parameter:

Hastelloy Alloy	Ni	Cr	Co	Mo	FE	W	Mn	C	V	P	S	Si
C22	Balance	20-22.5	2.5 Max	12.5-14.5	2.0-6.0	2.5-3.5	0.5Max	0.015 Max	0.35 Max	0.04 Max	0.03 Max	0.08 Max

ASTM	Alloy	Type	UNS	Misc./Shape
ASTM B574 Bar	Hastelloy C22	Nickel	N06022	Bar
ASTM B575 Plate	Hastelloy C22	Nickel	N06022	Plate
ASTM B575 Strip	Hastelloy C22	Nickel	N06022	Strip
ASTM B575 Sheet	Hastelloy C22	Nickel	N06022	Sheet
ASTM B619 Welded Pipe	Hastelloy C22	Nickel	N06022	Welded Pipe
ASTM B622 Seamless Tubing	Hastelloy C22	Nickel	N06022	Seamless Tubing

ASTM B366 Fittings	Hastelloy C22	Nickel	N06022	Fittings
ASTM B574 Wire	Hastelloy C22	Nickel	N06022	Wire



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