



## Oil And Gas Industry Hastelloy C-22 Wire Chromium Molybdenum

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: C22
- 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 C22 Wire
- Type: Nickel Alloy Wire
- Material: Ni Cr Mo Fe W Co
- Application: Reactor, Seawater Filter, Sulfur Recovery Device
- 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: Hastelloy C-22 Wire,



### More Images



## Product Description

### Product Description:

#### Hastelloy Wire Product Overview

Hastelloy C22 alloy wire has a wide range of applications in the oil and gas industry. Due to its excellent corrosion resistance and high temperature properties, Hastelloy C22 alloy wire is widely used in a variety of critical applications during oil and gas extraction, processing and transportation.

In the oil and gas industry, there are many corrosive media, high temperatures, high pressures and acidic environments. Hastelloy C22 alloy wire can resist the erosion of hydrogen sulfide, salt water, acid gas, acid solution and other corrosive media, and has excellent corrosion resistance. This makes it ideal for manufacturing critical components in equipment in the oil and gas industry, such as well casings, pipes, valves, pumps and heat exchangers.

In addition, Hastelloy C22 alloy wire also has excellent stress corrosion cracking resistance and can maintain high strength and reliability in high stress and corrosive environments. This is critical to withstand the vibration, pressure and chemical corrosion loads found in the oil and gas industry.

Hastelloy C22 alloy wire also has high oxidation resistance and can operate stably under high temperature conditions. It is suitable for high temperature applications in oil and gas processing, such as cracking furnaces and reformers.

In summary, Hastelloy C22 alloy wire plays an important role in the oil and gas industry. Its corrosion resistance, stress corrosion cracking resistance and high temperature performance make it an ideal material for manufacturing critical equipment that is durable, reliable and suitable for harsh environments.



### Characteristic:

**Corrosion resistance:** Hastelloy C22 alloy wire shows excellent corrosion resistance to common corrosive media in the oil and gas industry, such as hydrogen sulfide (H<sub>2</sub>S), chloride, acid gas, etc.

**Oxidation resistance:** Alloy wire has good oxidation resistance in high temperature and oxidizing environments, can maintain its performance and life, and is suitable for high temperature oil and natural gas processing processes.

**Resistance to stress corrosion cracking:** Hastelloy C22 alloy wire has good resistance to stress corrosion cracking and can maintain its integrity in high stress environments.

### Advantage:

**Corrosion Resistance:** One of the main advantages of Hastelloy C22 alloy wire in the oil and gas industry is its excellent corrosion resistance. It can resist hydrogen sulfide corrosion, salt solution corrosion and acid gas corrosion, etc., extending the service life of the equipment.

**High temperature stability:** The high temperature stability of the alloy wire makes Hastelloy C22 alloy wire suitable for high temperature oil and gas processing processes, such as high temperature reactors, heaters, furnace tubes, etc., and can withstand the stress and pressure in high temperature environments.

**Creep resistance:** Hastelloy C22 alloy wire has excellent creep resistance, that is, under high temperature and high stress conditions, it can maintain its shape and strength and is not prone to deformation or breakage.

### Application:

**Oil and gas processing equipment:** Hastelloy C22 alloy wire can be used to manufacture key components of oil and gas processing equipment, such as reactors, heat exchangers, pipes, valves, etc. It can resist hydrogen sulfide corrosion and other corrosive media, maintaining the stability and durability of the equipment.

**Seawater treatment equipment:** During the development of offshore oil fields, seawater treatment equipment often needs to resist corrosion and oxidizing media in seawater. Hastelloy C22 alloy wire can be used to manufacture key components of seawater treatment equipment, such as seawater filters, distillers, desalination devices, etc.

**Sulfur recovery units:** In oil and gas processing, sulfur recovery units are used to recover and process hydrogen sulfide gas. The use of Hastelloy C22 alloy wire in these devices can effectively resist hydrogen sulfide corrosion and maintain the efficiency and reliability of the device.

### Other relevant knowledge points:

Hastelloy C22 alloy wire is also commonly used in other applications in the oil and gas industry, such as sour gas processing, storage tank and pipeline systems, oil well equipment, etc., to meet the needs of various corrosive and high-temperature environments.

When selecting and using Hastelloy C22 alloy wire, comprehensive considerations need to be made based on specific process conditions, media characteristics and equipment design requirements.

It is necessary to ensure that the installation, maintenance and repair of alloy wires comply with relevant standards and specifications to ensure the safe operation and reliability of the equipment.

**Summary:** Hastelloy C22 alloy wire has excellent corrosion resistance, high temperature stability and creep resistance in the oil and gas industry. It is widely used in oil and gas processing equipment, seawater treatment equipment, sulfur recovery equipment and other fields to resist hydrogen sulfide corrosion and other corrosive media, as well as withstand the requirements of high temperature and high stress environments. When selecting and using alloy wire, specific conditions need to be considered and the installation and maintenance of the equipment must comply with relevant standards and specifications.

## Technical Parameters:

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

## Customization:

Victory Hastelloy Wire Customization Service

Brand Name: Victory

Model Number: HC-276, C-22, C-4, B2, B3, N

Place of Origin: China

Surface Finish: Bright, Oxidized, Or Pickled

Size: 0.5-7.5mm, Customized Size

Wire: 0.01-10mm

Strip: 0.05\*5.0-5.0\*250mm

Bar:  $\phi$ 4-50mm; Length 2000-5000mm

Pipe:  $\phi$ 6-273mm;  $\delta$ 1-30mm; Length 1000-8000mm

Sheet:  $\delta$  0.8-36mm; Width 650-2000mm; Length 800-4500mm

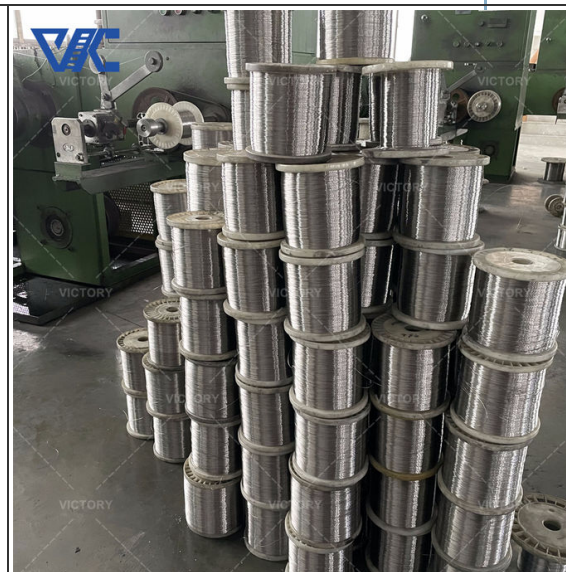
## contact us

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

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service



## FAQ:

What is the electrical conductivity of Hastelloy C22 alloy wire?

Hastelloy C22 alloy wire has good electrical conductivity and can be used in some applications that require electrical conductivity.

How is the processability of Hastelloy C22 alloy wire?

Hastelloy C22 alloy wire has good processing properties, can be cold processed and hot processed, and can be connected by welding, brazing, etc.

What is the wear resistance of Hastelloy C22 alloy wire?

Hastelloy C22 alloy wire has good wear resistance and can maintain good performance in some friction and wear environments.



**Changzhou Victory Technology Co., Ltd**



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

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