



Aerospace Industry N10276 Hastelloy C276 Wire With Lightweight Design

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 : 1.30 Microhm-m
- Thermal : 0.4 W/m.K



More Images



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Product Description:

Hastelloy Wire Product Overview

Hastelloy C276 alloy wire has important applications in the aerospace industry. Hastelloy C276 alloy is a high-performance nickel-based alloy composed of elements such as nickel, chromium and molybdenum, which has excellent corrosion resistance and high temperature performance. This alloy wire is widely used in various key components and systems in the aerospace industry.

Hastelloy C276 alloy wire has excellent corrosion resistance and can withstand corrosive media in the aerospace industry, such as acidic gases, salt water and high-temperature gases. It exhibits good resistance to acid, alkali and salt corrosion, and can maintain stability in extreme environments and extend the service life of components.

The alloy wire has high strength and excellent mechanical properties and can withstand high temperature, high pressure and high stress requirements in the aerospace industry. It also has good oxidation resistance and creep resistance, can maintain stability in high temperature environments, and resist gas erosion and deformation.

Hastelloy C276 alloy wire is available in a variety of hardness and surface treatment options to meet the needs of different components and systems in the aerospace industry. It is widely used in key areas such as aerospace engine components, combustion chamber components, turbine blades, nozzles and fuel systems.

In summary, Hastelloy C276 alloy wire is an important material choice in the aerospace industry. It can meet the requirements under extreme conditions such as corrosive media, high temperature, high pressure, and high stress environments, ensuring the reliability, safety, and performance of aerospace equipment. stability.



Characteristic:

Corrosion resistance: Hastelloy C276 alloy wire exhibits excellent corrosion resistance and has good resistance to corrosive media such as oxidizing acid, hydrochloric acid, and sulfuric acid.

High temperature stability: This alloy wire can maintain good mechanical properties and structural stability in high temperature environments, and has excellent oxidation resistance.

Resistant to Stress Corrosion Cracking: Hastelloy C276 alloy wire has excellent resistance to stress corrosion cracking and remains stable under harsh working conditions.

Oxidation resistance: Alloy wire has good antioxidant properties at high temperatures and can be used in oxidizing environments for a long time.

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:

Lightweight high strength: Hastelloy C276 alloy wire has lower density and excellent strength, providing lightweight design and superior structural strength.

Corrosion resistance: This alloy wire has excellent corrosion resistance in various corrosive media faced in the aerospace industry, and can extend the life of parts.

High temperature performance: Hastelloy C276 alloy wire can work stably for a long time in high temperature environments and is suitable for the manufacturing of aerospace engines and high temperature components.

Resistance to stress corrosion cracking: Alloy wire has excellent resistance to stress corrosion cracking and can maintain reliability in high stress environments.

Application:

Aero-engine components: Hastelloy C276 alloy wire can be used to manufacture high-temperature components in aero-engines, such as turbine blades, combustion chambers and nozzles.

Aviation gas turbine: Alloy wire can be used to manufacture key components such as combustion chambers, combustors, turbine disks and blades in aviation gas turbines.

Spacecraft components: This alloy wire is suitable for various components in spacecraft, such as propulsion systems, fuel storage and delivery systems, and navigation and control systems.

Aerospace equipment: Hastelloy C276 alloy wire can be used in the manufacture of aerospace equipment, such as gas turbine engines, combustors, gas injectors, gas turbines, nozzles, and gas turbine blades.

Other relevant knowledge points:

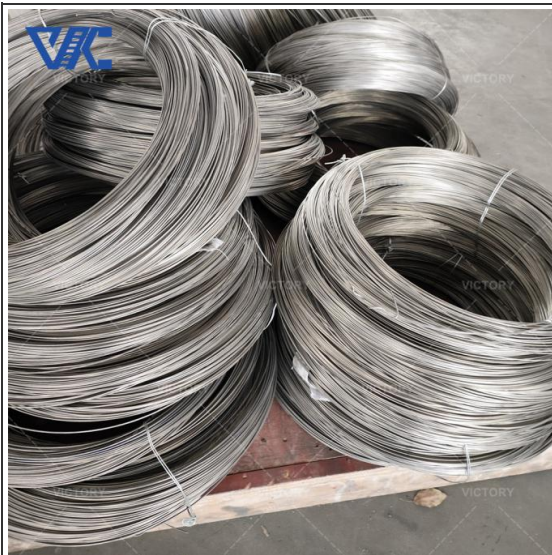
Hastelloy C276 alloy wire also has good welding properties and can be easily connected with other materials. This alloy wire is also widely used in chemical industry, marine engineering, electronic equipment manufacturing and other fields. The preparation process of Hastelloy C276 alloy wire requires strict control of temperature and alloy composition to ensure the quality and performance of the final product. The alloy wire can be formed and processed through processing techniques such as cold drawing, hot drawing or welding.

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

contact us
email:victory@dlx-alloy.com

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 is the thermal stability of Hastelloy HC276 alloy wire?
Hastelloy HC276 alloy wire has excellent thermal stability and can maintain good mechanical properties and corrosion resistance in high temperature environments.

What is the price of Hastelloy HC276 alloy wire?
The price of Hastelloy HC276 alloy wire is relatively high due to its excellent performance and rare material composition.



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