



Nickel Alloy Strip Corrosion Resistant Strip Hastelloy C276

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: 5 Kg
- Price: 50 - 999 kilograms US\$55.00
- 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

- Type: Nickel Strip
- Grade: HC-276
- Product Name: Nickel Alloy Strip
- Ni (Min): 58
- Size: Client's Requirements
- Melting Point: 1325-1370°C
- Application: Construction, Industry, Etc
- Elongation: 67%
- Ultimate Strength (≥ MPa): 763
- Width: 1000-6000mm, Customized
- Advantage: Fast Delivery, Large Inventory, Etc
- Highlight: **Hastelloy C276 Nickel Alloy Strip,**



More Images



Product Description

Product Description:

Hastelloy Strip Product Overview

Hastelloy C276 strip is a nickel-containing high alloy, containing 57% nickel, 15-17% molybdenum, 14.5% chromium and 3-4.5% iron. In addition, it contains small amounts of elements such as titanium, molybdenum and aluminum. Hastelloy C276 strip has excellent corrosion resistance in harsh environments such as chemical industry, petroleum and ocean, and can resist the erosion of various corrosive media. It also has high strength and good mechanical properties, maintaining its mechanical properties at different

Our Product I

temperatures. Therefore, Hastelloy C276 strip is widely used in the manufacture of chemical equipment such as reactors, heat exchangers, evaporators and storage tanks, as well as key components in the petroleum field such as oil well casings, pipes and valves.

Corrosion resistance:

Hastelloy C276 strip has excellent performance in corrosion resistance. Compared with other common materials, its corrosion resistance has the following advantages:

Resistant to a variety of corrosive media: Hastelloy C276 strip has a wide range of corrosion resistance and can resist the erosion of a variety of strong acids, strong alkali and salt solutions, including sulfuric acid, hydrochloric acid, hydrofluoric acid, chloride, etc. It has excellent corrosion resistance in both acidic and alkaline environments.

Oxidation resistance: Hastelloy C276 strip can resist oxidation and corrosion in high temperature environments. It can maintain stable performance at high temperatures for a long time, is not prone to oxidation and corrosion, and is suitable for applications in high-temperature oxidizing media.

Resistance to stress corrosion cracking: Hastelloy C276 strip has good resistance to stress corrosion cracking. In some environments where high stress and corrosive media exist simultaneously, it can effectively prevent the occurrence of stress corrosion cracking and provide reliable durability.

In contrast, some common materials such as stainless steel, nickel-based alloys and titanium alloys may have certain limitations in corrosion resistance. Stainless steel has poor corrosion resistance in strong acid and alkali environments; although nickel-based alloys have good corrosion resistance, they are expensive; titanium alloys may be oxidized and corroded in some special environments.

It should be noted that the corrosion resistance of each material is affected by the specific working environment and corrosive media. In application, it is necessary to comprehensively consider the specific corrosion environment and requirements, and select the most suitable material to meet the requirements for corrosion resistance.

Technical Parameters:

Product	nickel alloy sheet
Material	Hastelloy/Nickel Alloy strip
Grade	Hastelloy:HastelloyB/ -2/B-3/C22/C-4/S/ C276/C-2000/G-35/G-30/X/N/g Hastelloy B / UNS N10001,Hastelloy B-2 / UNS N10665 / DIN W.Nr. 2.4617,Hastelloy C, Hastelloy C-4 / UNS N06455 / DIN W. Nr. 2.4610,Hastelloy C-22 / UNS N06022 / DIN W. Nr. 2.4602, Hastelloy C-276 / UNS N10276 / DIN W. Nr. 2.4819,Hastelloy X / UNS N06002 / DIN W. Nr. 2.4665
Thickness	Customized
Width	600mm, 1000mm, 1219mm, 1500mm, 1800mm, 2000mm, 2500mm, 3000mm, 3500mm, etc
Length	2000mm, 2440mm, 3000mm, 5800mm, 6000mm, etc
Standard	GB,AISI,ASTM,DIN,EN,SUS,UNS etc
Quality test	we can offer MTC(mill test certificate)
Delivery time	Usually 7-15 dyas, or upon negotiation

item	HC-276	C-22	C-4	B2	B3	N
C	≤0.01	≤0.015	≤0.015	≤0.02	≤0.01	0.04-0.08
Mn	≤1	≤0.5	≤1	≤1	≤3	≤1
Fe	4-7	2-6	≤3	≤2	≤1.5	≤5
P	≤0.04	≤0.02	≤0.04	≤0.04	--	≤0.015
S	≤0.03	≤0.02	≤0.03	≤0.03	--	≤0.02
Si	≤0.08	≤0.08	≤0.08	≤0.1	≤0.1	≤1
Ni	rest	rest	rest	rest	≤65	rest
Co	≤2.5	≤2.5	≤2	≤1	≤3	≤0.2
Ti+Cu	--	--	≤0.7	--	≤0.4	≤0.35
Al+Ti	--	--	--	--	≤0.5	≤0.5
Cr	14.5-16.5	20-22.5	14-18	≤1	≤1.5	6-8
Mo	15-17	12.5-14.5	14-17	26-30	≤28.5	15-18
B	--	--	--	--	--	≤0.01
W	3-4.5	2.5-3.5	--	--	≤3	≤0.5
V	≤0.35	≤0.35	--	0.2-0.4	--	≤0.5

Product Name	Hastelloy Strip
Size	Customized Size
Material	Hastelloy
Hardness	HRB 89

Tensile Strength	690 MPa
Yield Strength	310 MPa
Coefficient Of Thermal Expansion	11.2 $\mu\text{m/m-K}$
Thermal Conductivity	9.9 W/m-K
Corrosion Resistance	Excellent
Powder Or Not	Not Powder
Density	8.22 G/cm3

Key Words: Hastelloy Alloys, Hastelloy X Price, Hastelloy C276

Limitation:

Although Hastelloy C276 strip excels in many aspects, it also has some limitations, as discussed below:

Higher cost: Compared with some common stainless steels and other corrosion-resistant alloys, the cost of Hastelloy C276 is relatively high. This is mainly due to its special alloy composition and manufacturing process.

Thermal processing is difficult: Hastelloy C276 has relatively poor thermal processing ability at high temperatures. Its thermoplasticity is low, and appropriate heat treatment and processing techniques are required to ensure the performance and structural stability of the material.

Limited available size range: For large size and thick components, there may be certain limitations in the supply and processing of Hastelloy C276. This is mainly due to the higher technical and equipment requirements for manufacturing and processing large-size materials.

Not suitable for some special environments: Although Hastelloy C276 has good corrosion resistance in a wide range of corrosive media, its corrosion resistance is limited under certain extreme conditions, such as high concentrations of hydrofluoric acid and oxidizing chlorine. Performance may be subject to certain limitations.

Notes on weldability: Although Hastelloy C276 has good weldability, attention needs to be paid to selecting appropriate welding materials and processes during the welding process to ensure the performance and corrosion resistance of the welded joint.

These limitations need to be considered and appropriate materials and solutions selected based on specific application needs and environmental conditions. In some special cases, other corrosion-resistant alloy materials may need to be considered to meet specific requirements.

Compared:

Compared with other common corrosion-resistant alloys, Hastelloy C276 has a wider range of corrosion-resistant properties and can be used in more severe environments. It is compatible with other metals, such as stainless steel, nickel-based alloys, etc., and is widely used in chemical, petroleum, pharmaceutical, aviation and other fields.

contact us

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FAQ:

Q: Can Hastelloy-C276 strip be used in high-temperature applications?

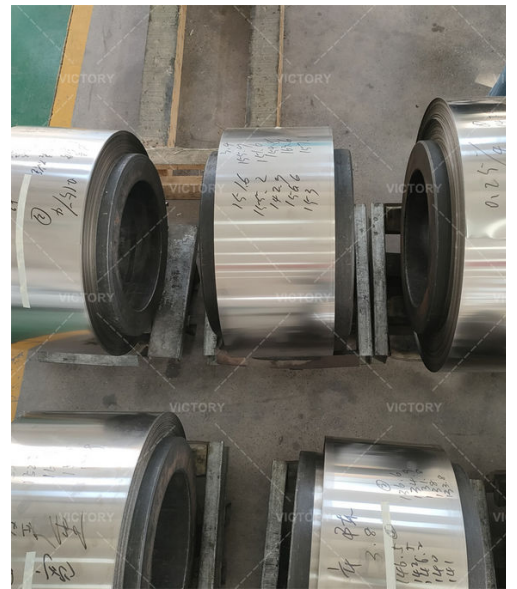
A: Yes, Hastelloy-C276 strip can operate at elevated temperatures and maintain its mechanical properties.

Q: What certifications or standards does Hastelloy-C276 strip comply with?

A: Hastelloy-C276 strip may comply with international standards such as ASTM, ASME, or specific industry standards.

Q: Is Hastelloy-C276 strip suitable for acidic environments?

A: Yes, Hastelloy-C276 strip is highly resistant to acidic environments and can withstand exposure to various acids.



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