



High Temperature Resistance Nickel Based Alloy Hastelloy C22 Strip / Tape

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: C-22
- Minimum Order Quantity: 5 Kg
- Price: 50 - 999 kilograms US\$45.00
- 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

- Product Name: Hastelloy Strip
- Type: Nickel Strip
- Grade: C22
- Ni (Min): 58
- Size: Customized Size
- Powder Or Not: Not Powder
- Ultimate Strength (\geq MPa): 763
- Elongation: 67%
- Application: Petroleum, Chemical Industry, Aviation, Shipbuilding
- Highlight: **Nickel Based Hastelloy C22 strip,**
Nickel Based Hastelloy C22 Tape



More Images



Product Description

Product Description:

Hastelloy Strip - High Strength and Corrosion-Resistant Alloy

Hastelloy C22 strip is a high-performance nickel-based alloy mainly used in the chemical, petroleum and offshore engineering fields. It has excellent corrosion resistance and can resist the erosion of acidic, alkaline and oxidizing media, such as sulfuric acid, hydrochloric acid and chloride. In addition, Hastelloy C22 strip also exhibits excellent thermal stability, can remain stable in high temperature and high pressure environments, and has good mechanical strength and weldability. It is widely used in the manufacture of pipes, containers, heat

Our Product I

exchangers and other equipment to meet process requirements that require high corrosion resistance and high temperature and high pressure stability.

Features:

Product Name: Hastelloy Strip
 Elongation: 40%
 Hardness: HRB 89
 Yield Strength: 310 MPa
 Powder Or Not: Not Powder
 Coefficient Of Thermal Expansion: 11.2 $\mu\text{m/m}\cdot\text{K}$

Hastelloy C22 strip is a high performance nickel-molybdenum-chromium alloy strip, also known as Alloy C22. It is a corrosion-resistant alloy developed by Hastelloy Corporation with excellent corrosion resistance and high temperature performance.

1. Corrosion resistance: Hastelloy C22 strip has excellent corrosion resistance and performs well in a wide range of corrosive media. It has excellent corrosion resistance to a variety of strong acids, alkalis, salt solutions, oxidizing media and chlorides. This makes Hastelloy C22 strip widely used in chemical, petrochemical, pharmaceutical, food processing and other fields.
2. Anti-oxidation performance: Hastelloy C22 strip has excellent anti-oxidation performance and can operate stably for a long time in high temperature environments. It is resistant to high-temperature oxidation, sulfidation and chlorination reactions and is suitable for applications such as high-temperature furnaces, gas treatment and petroleum processing.
3. High temperature performance: Hastelloy C22 strip has excellent high temperature performance. It can maintain good mechanical properties and corrosion resistance at high temperatures, has a low thermal expansion coefficient and good thermal conductivity.
4. Processing performance: Hastelloy C22 strip has good processing performance and can be formed and processed by conventional processing techniques such as cold rolling, hot rolling, welding and cutting.

Application fields:

Hastelloy C22 strips are widely used in chemical, petrochemical, pharmaceutical, food processing, electronics, electric power and flue gas desulfurization and other fields. It is commonly used in the manufacture of critical components such as vessels, heat exchangers, reactors, pipes, valves, pumps and petroleum processing equipment.

It is important to note that Hastelloy C22 strip is a high-end material and generally has a higher price. When selecting and using Hastelloy C22 strips, it is necessary to comprehensively consider factors such as engineering requirements, corrosion resistance, high temperature performance, economy, etc., and refer to relevant material performance data and technical guidance.

Technical Parameters:

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	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

Keywords: Hastelloy C22, Hastelloy C276 price per kg, Hastelloy X price

Thermal expansion properties:

The thermal expansion coefficient of Hastelloy C22 alloy strip is approximately $12.1 \times 10^{-6}/^{\circ}\text{C}$ in the normal temperature range. This means that when the temperature increases by 1 degree Celsius, the length of the alloy will increase by approximately 12.1 microns. The coefficient of thermal expansion is an important parameter describing the length change of a material when the temperature changes, and is very important for thermal expansion compensation in design and engineering applications. The relatively low thermal expansion coefficient of Hastelloy C22 alloy strip gives it good stability and mechanical properties in high temperature environments, making it suitable for applications that require resistance to stress and deformation caused by thermal expansion.

contact us

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Oem service:

Welcome customized size

We are experience factory for OEM&ODM service

Packing and Shipping:

Packing and Shipping of Hastelloy Strip

Hastelloy Strip is typically packaged and shipped in the following ways:

Wrapped in plastic or paper and placed in wooden crates or boxes for protection during transport.

Packed in bundles or coils and secured with metal straps for easy handling and storage.

Customized packaging options are also available per customer's request.

For international shipping, Hastelloy Strip is usually packed in compliance with international shipping regulations and standards. This includes proper labeling, documentation, and packaging materials for safe and efficient transportation.

Our shipping options include air freight, sea freight, and land transportation, depending on the customer's preference and urgency of delivery.

At our company, we take great care in packaging and shipping our Hastelloy Strip to ensure its safe arrival at the destination. Our experienced logistics team and reliable shipping partners guarantee timely and secure delivery of your order.

FAQ:

What is the chemical composition of Hastelloy C22 tape?

The chemical composition of Hastelloy C22 strip includes approximately 50% nickel, 22% chromium, 13% molybdenum and 3% iron. In addition, it contains small amounts of tungsten, copper and other alloying elements.

Are Hastelloy C22 strips available in custom sizes?

Yes, Hastelloy C22 strip can be customized in size and shape as per customer's requirements.

What is the density of Hastelloy C22 tape?

The density of Hastelloy C22 tape is approximately 8.69 g/cm³.



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