



Spring Tempered High Tensile Hastelloy HC276 Hard Draw Wire

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: 30 - 99 kilograms US\$50.00
- 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

- Melting Point: 1350-1400°C
- Type: Nickel Alloy Wire
- Grade: Ni Cr Mo Fe W Co
- Ni (Min): 58%
- Model Number: HC-276
- Surface: Bright
- Tensile Strength: ≥ 690 MPa
- Size: 0.5-7.5mm, Customized Size
- Tensile Strength Rm(N/mm²): 690
- Elongation(%): 30
- Highlight: Hastelloy HC276 Hard Draw Wire, Spring Tempered Hastelloy Wire, Spring Tempered Hastelloy HC276 Wire



More Images



Product Description

Product Description:

Our Product Introduction

Hastelloy Wire Product Overview

Hastelloy C276 alloy wire is a high-performance alloy wire with excellent properties. It is composed of elements such as nickel, molybdenum, chromium and tungsten. Its corrosion resistance, high temperature resistance and mechanical properties are excellent. In various corrosive media, Hastelloy C276 alloy wire exhibits excellent corrosion resistance and can resist the erosion of strong acids, strong alkali, oxidizing media, chlorides, sulfides and other corrosive substances. In addition, it also has good high-temperature stability and strength, and can operate stably for a long time in high-temperature environments. Due to its excellent performance, Hastelloy C276 alloy wire is widely used in petroleum, chemical industry, aerospace, electronics and other fields.



Features & Application:

Hastelloy C276 is a high performance nickel-based alloy with excellent corrosion resistance. It is mainly composed of elements such as nickel, chromium and molybdenum, of which the nickel content is about 50%, the chromium content is about 15%, the molybdenum content is about 16%, and it also contains small amounts of copper, iron and titanium and other elements. This alloy performs well in a wide range of corrosive environments, with particular resistance to acidic environments and chloride media.

The key features and applications of Hastelloy C276 alloy:

Corrosion resistance: Hastelloy C276 has excellent corrosion resistance and is highly resistant to a variety of strong acid, alkali and salt solutions. Its corrosion resistance in acidic media is better than common stainless steel and nickel-based alloys.

Oxidation resistance: The alloy has good oxidation resistance at high temperatures and can resist oxidative heat treatment and oxidative corrosion in high temperature environments.

Resistant to Stress Corrosion Cracking: Hastelloy C276 is highly resistant to stress corrosion cracking and therefore maintains its performance in some corrosive environments and high stress conditions.

Application areas: Hastelloy C276 is widely used in chemical industry, oil and gas extraction, marine engineering, pharmaceuticals, food processing and other fields. It is often used to manufacture equipment and components under corrosive media, such as reactors, heat exchangers, evaporators, piping systems, etc.

Overall, Hastelloy C276 is a high-performance nickel-based alloy with excellent corrosion resistance and resistance to stress corrosion cracking. It performs well in various harsh chemical environments and is widely used in various industrial fields where high corrosion resistance materials are required.

Technical Parameters:

Alloy	%	Ni	Cr	Mo	Fe	W	Co	C	Mn	Si	V	P	S
C276	Min	Rest	14.5	15	4	3							
	Max		16.5	17	7	4.5	2.5	0.01	1	0.08	0.35	0.04	0.03

Alloy state	Tensile strength Rm N/mm ²	Yield strength R P0.2 N/mm ²	Elongation A 5 %
C /C276	690	283	40

Technical Parameters	Value
Tensile Strength	≥690MPa
Ni (Min)	58%
Surface	Bright
Heat Resistance	High
Size	0.5-7.5mm, Customized Size
Melting Point	1350-1400℃
Available Forms	Coil, Spool, Straight Length, Cut Length
Application	Chemical Processing, Aerospace, Marine, Oil And Gas, Etc.
Density	8.9 G/cm3
Model Number	HC-276, C-22, C-4, B2, B3, N

Manufacturers Hastelloy C276, Hastelloy C276 Price Per kg, Hastelloy X, Hastelloy C22, Hastelloy C276 Suppliers

Production Process:

When manufacturing Hastelloy C276 alloy, the following process steps are typically followed:

Raw material preparation: According to the alloy formula, prepare various raw materials in correct proportions, including nickel, chromium, molybdenum, copper, iron, titanium, etc. These raw materials are usually available in powder or block form.

Smelting alloys: Put the raw materials into a high-temperature furnace for smelting. During the smelting process, by controlling the temperature and atmosphere, the raw materials are melted and mixed evenly to form an alloy melt.

Refining treatment: Refining the alloy melt to remove impurities and undesirable components. This typically includes steps such as oxidation, reduction and vacuum treatment to ensure the purity and homogeneity of the alloy.

Cooling and solidification: Pour the refined alloy melt into the mold and allow it to cool and solidify. This can be done by natural cooling or controlled cooling rate.

Heat treatment: Heat treatment is performed on a solidified alloy to improve its mechanical properties and corrosion resistance. This involves heating to a specific temperature, holding it for a period of time, and then cooling to room temperature.

Hot working: As needed, the alloy is plastically deformed by forging, rolling or other hot working methods to obtain the desired shape and size.

Finishing and surface treatment: Finishing and surface treatment of the hot-processed alloy includes steps such as cutting, grinding, grinding and polishing to meet the requirements of the final product.

Testing and Quality Control: Various testing and quality control measures are carried out on the manufactured Hastelloy C276 alloy to ensure that it meets the prescribed standards and requirements. This may include chemical composition analysis, mechanical property testing, corrosion resistance testing, etc.

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
Grade: Ni Cr Mo Fe W Co
Available Forms: Coil, Spool, Straight Length, Cut Length
Tensile Strength: $\geq 690\text{MPa}$
Wire: 0.01-10mm
Strip: 0.05*5.0-5.0*250mm
Bar: $\phi 4$ -50mm;Length 2000-5000mm
Pipe: $\phi 6$ -273mm; $\phi 1$ -30mm;Length 1000-8000mm
Sheet: δ 0.8-36mm;Width 650-2000mm;Length 800-4500mm

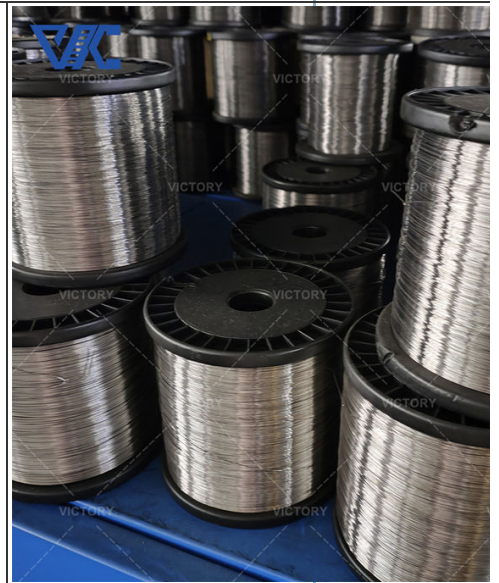
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FAQ:

What material is Hastelloy HC276 alloy wire made of?

Hastelloy HC276 alloy wire is a high-temperature alloy wire composed of nickel, molybdenum, chromium and iron.

What is the service life of Hastelloy HC276 alloy wire?

Hastelloy HC276 alloy wire can extend the service life of equipment due to its excellent corrosion resistance and high temperature stability.

What is the oxidation resistance of Hastelloy HC276 alloy wire?

Hastelloy HC276 alloy wire has good oxidation resistance and can operate stably for a long time in high-temperature oxidizing environments.



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