

Chemical Industry Nickel Alloy Hastelloy C4 Wire With Excellent Stability

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Basic Information

 Place of Origin: 	China	7
 Brand Name: 	Victory	
Certification:	CE,ROHS,ISO 9001	
 Model Number: 	C-4	
Minimum Order Quantity:	5 Kg	
Price:	Negotiable	
 Packaging Details: 	Nickel wire is rolled on white spool or packed with plastic film,in cartoon boxes. Special packaging requirements can also be accommodated. OEM is also acceptable	
 Delivery Time: 	5-21 days	
 Payment Terms: 	L/C, T/T, Western Union, MoneyGram	
Supply Ability:	300 tons per month	



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Product Specification

• P	roduct Name:	Hastelloy C4 Wire
• N	laterial:	Ni Cr Mo
• E	longation (≥ %):	30 %
• B	rinell Hardness HB:	≤220
• D	ensity:	8.89 G/cm3
• T N	ensile Strength Rm I/mm²:	760MPA
• Y N	ïeldstrength R P0. 2 I/mm²:	345MPA
• E	lectrical Resistivity 24°C:	1.30 Microhm-m
• T	hermal Conductivity 32°C	:9.4 W/m-K
• A	pplication:	Chemical Reactors, Chemical Storage Tanks, Tanks And Pipes
• S	urface:	Bright,Oxided
• H	lighlight:	Nickel Alloy Hastelloy C4 Wire,

C22 Hastelloy Wire



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Introduction:

Hastelloy C4 alloy wire is a high-performance alloy material widely used in the chemical industry. Hastelloy C4 alloy is highly regarded for its excellent corrosion resistance and resistance to stress corrosion cracking. It is a nickel-based alloy that performs well in highly corrosive environments.

In the chemical industry, many processes require the handling of high-temperature and corrosive media and chemicals. Hastelloy C4 alloy wire is an ideal choice due to its excellent chemical stability and corrosion resistance. It can resist corrosion from a variety of acidic, alkaline and salt media, including sulfuric acid, hydrochloric acid, nitric acid and chloride. Therefore, it is widely used in chemical processes to manufacture equipment such as reactors, heat exchangers, pipes and valves.

The manufacturing process of Hastelloy C4 alloy wire usually includes the following steps: first, cut the wire of appropriate size from Hastelloy C4 alloy plate or rod; then, use special equipment to stretch, wind and bend the Hastelloy C4 alloy wire, etc. Processing operations to obtain the desired diameter and shape; next, the processed alloy wire may need to be heat treated to relieve stress and improve material properties; finally, surface treatment such as polishing, sandblasting, or electroplating is performed as needed, to improve appearance and corrosion resistance.

In summary, Hastelloy C4 alloy wire is widely used in the chemical industry. It has excellent corrosion resistance, providing excellent durability and performance in corrosive media and chemical environments. This alloy wire is able to meet the high material requirements of the chemical industry and is considered a reliable material choice.

Characteristic:

Corrosion resistance: Hastelloy C4 alloy wire has excellent corrosion resistance and can resist corrosion from a variety of chemical media, including strong acids, strong alkali, oxidants and reducing agents. It exhibits good corrosion resistance in a wide range of chemical environments.

Oxidation resistance: Alloy wire has good oxidation resistance and can maintain stability in high temperature environments to avoid material failure caused by oxidation reactions.

High strength and toughness: Hastelloy C4 alloy wire has good strength and toughness, able to withstand stress and deformation in the chemical industry, maintaining structural integrity and reliability.

Advantage:

Strong corrosive media adaptability: Hastelloy C4 alloy wire has excellent corrosion resistance and can maintain stability and performance in corrosive media such as strong acids, strong alkali and organic solvents. It is suitable for applications in the chemical industry that need to handle corrosive media.

Wide temperature range adaptability: Alloy wire can maintain stability and mechanical properties in a wide temperature range and is suitable for high or low temperature chemical industry applications.

Good processing performance: Hastelloy C4 alloy wire has good plasticity and weldability, which makes it easy to process and manufacture into various shapes and structures to meet the needs of complex equipment and components in the chemical industry.

Application:

Chemical reactor: Hastelloy C4 alloy wire can be used to manufacture components such as linings, stirrers, pumps and pipes in chemical reactors. It can resist corrosive media such as strong acids, strong bases and organic solvents during chemical reactions, maintaining the stability and safety of the reactor.

Stills and Extractors: Alloy wire can be used to make key components such as trays, packings and separators in stills and extractors. It can withstand high temperature, high pressure and corrosive media to achieve effective material separation and purification processes.

Chemical storage and transportation equipment: Hastelloy C4 alloy wire can be used to manufacture equipment such as chemical storage tanks, tanks, and pipeline systems to ensure the safe storage and transportation of chemicals. It resists chemical corrosion and leakage risks, ensuring process safety and environmental protection.

Other relevant knowledge points:

When selecting and using Hastelloy C4 alloy wire, it is necessary to select the appropriate diameter, wire diameter, elastic modulus and other parameters based on factors such as the corrosion properties of the specific chemical medium, temperature and pressure, and follow relevant standards and specifications for processing and manufacturing.

Hastelloy C4 alloy wire also has some other related characteristics and application knowledge points:

Hastelloy C4 alloy wire is a nickel-based alloy whose main alloy elements include nickel (Ni), chromium (Cr), molybdenum (Mo) and copper (Cu). The reasonable proportion and addition of these elements can provide the corrosion resistance and mechanical properties of the alloy.

Hastelloy C4 alloy wire is commonly used in the chemical industry to manufacture chemical reactors, distillation towers, extractors, heat exchangers, storage tanks, pipes, valves and other equipment and components.

The application scope of this alloy wire in the chemical industry covers many fields, including organic synthesis, petrochemical industry, metallurgy, pharmaceuticals, fertilizer production, etc.

Hastelloy C4 alloy wire also has certain resistance to stress corrosion cracking and is suitable for chemical industry applications in high stress environments.

The alloy wire has good thermal creep resistance and can maintain stability and reliability under high temperature conditions.

Parameter:

Hastelloy Alloy	Ni	Cr	Co	Мо	FE	W	Mn	С	V	Р	S	Si
C-4	Balance	14-18	2 Max	14-17	3.0 Max		1.0 Max	0.015 Max		0.04 Max	0.03 Max	0.08 Max

Type we could offer

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ASTM	Alloy	Туре	UNS	Misc./Shape
ASTM B574 Bar	Hastelloy C-4	Nickel	N06455	Bar
ASTM B575 Plate	Hastelloy C-4	Nickel	N06455	Plate
ASTM B575 Strip	Hastelloy C-4	Nickel	N06455	Strip

ASTM B575 Sheet	Hastelloy C-4	Nickel	N06455	Sheet
ASTM B619 Welded Pipe	Hastelloy C-4	Nickel	N06455	Welded Pipe
ASTM B622 Seamless Tubing	Hastelloy C-4	Nickel	N06455	Seamless Tubing
ASTM B366 Fittings	Hastelloy C-4	Nickel	N06455	Fittings
ASTM B574 Wire	Hastelloy C-4	Nickel	N06455	Wire







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