

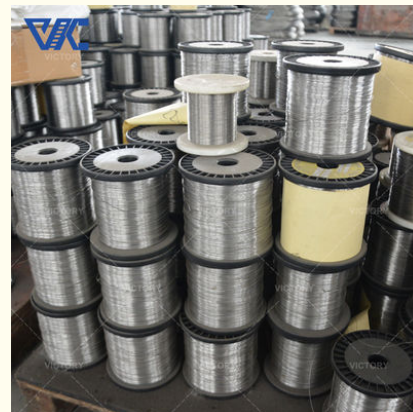


Oil And Gas Industry Nickel Alloy B2 Hastelloy Wire With Excellent Mechanical Properties

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: B2
- 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

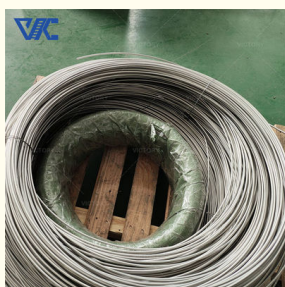


Product Specification

- Product Name: Hastelloy B2 Wire
- Material: Ni Cr Mo
- Density: 9.2 G/cm³
- Melting Point: 1330-1380°C
- Thermal Conductivity: 10.7 W/m·K
- Yield Strength: 310 MPa
- Tensile Strength: 680 MPa Min
- Elongation (≥ %): 40 %
- Hardness: ≤ 100 HB
- Application: Pipes, Valves, Heat Exchangers, Reactors
- Surface: Bright,Oxided
- Highlight: **Nickel Alloy C276 Hastelloy Wire, B2 Hastelloy Wire**



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Product Description

Introduction:

Hastelloy B2 alloy wire has a wide range of applications in the oil and gas industry. Hastelloy B2 alloy is a nickel-based alloy with excellent corrosion resistance and stress corrosion cracking resistance, and is particularly suitable for use in corrosive environments and high temperature and pressure conditions.

In the oil and gas industry, there are many corrosive media and harsh working conditions. These conditions include acid gases, brine, sulfides, etc. Hastelloy B2 alloy wire is widely used due to its excellent corrosion resistance. It can resist corrosion in acidic media such as sulfuric acid, hydrochloric acid, and nitric acid, and also shows excellent resistance to harmful substances such as hydrogen sulfide and chloride.

The manufacturing process of Hastelloy B2 alloy wire usually includes the following steps: First, cut the wire of appropriate size from Hastelloy B2 alloy plate or rod; then, use special equipment to stretch, wind and bend the Hastelloy B2 alloy wire. 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 B2 alloy wire is widely used in the oil and gas industry. It has excellent corrosion resistance and resistance to stress corrosion cracking, and can provide reliable performance in corrosive media and harsh working conditions. This alloy wire can meet the high material requirements of the oil and gas industry and is widely used in the manufacture of pipes, valves, pumps and other critical equipment to ensure a safe and reliable operating environment.

Characteristic:

Corrosion resistance: Hastelloy B2 alloy wire has excellent corrosion resistance and can maintain stability in corrosive media such as strong acids, strong alkalis and oxidants. It also shows good corrosion resistance to some harmful gases such as hydrogen sulfide (H₂S).

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 B2 alloy wire has good strength and toughness, able to withstand stress and deformation in the oil and gas industry, maintaining structural integrity and reliability.

Advantage:

Adaptability to strong corrosive media: Hastelloy B2 alloy wire has excellent corrosion resistance and can handle corrosive media such as strong acids, strong alkali and harmful gases in the oil and gas industry, maintaining the stability and performance of the material.

Wide temperature range adaptability: Alloy wire maintains stability and mechanical properties over a wide temperature range, making it suitable for oil and gas industry applications at high or low temperatures.

Good processability: Hastelloy B2 alloy wire has good plasticity and weldability, making it easy to process and manufacture into various shapes and structures to meet the needs of complex equipment and components in the oil and gas industry.

Application:

Oil and gas extraction equipment: Hastelloy B2 alloy wire can be used to manufacture components such as pipes, valves, pumps and anti-corrosion coatings in oil and gas extraction equipment. It can resist the erosion of harmful gases such as hydrogen sulfide (H₂S) and maintain the corrosion resistance and reliability of the equipment.

Chemical equipment and refining units: Alloy wire can be used to manufacture key components such as heat exchangers, reactors, distillation towers and storage tanks in chemical equipment and refining units. It can maintain stability in strong acid, strong alkali and high temperature environments, enabling efficient operation of chemical processes and safe production of products.

Pipes and transmission systems: Hastelloy B2 alloy wire can be used to manufacture equipment such as oil and gas transmission pipelines, storage tanks and pumping stations. It can resist corrosion from hydrogen sulfide (H₂S) and other corrosive media, ensuring the safe transportation and storage of oil and natural gas.

Other relevant knowledge points:

Hastelloy B2 alloy wire is a nickel-based alloy whose main alloy elements include nickel (Ni), chromium (Cr), molybdenum (Mo) and iron (Fe). Its chemical composition provides good corrosion resistance and mechanical properties.

Hastelloy B2 alloy wire is usually formed and processed by cold working or hot working. Cold processing includes cold drawing and cold rolling, and hot processing includes hot rolling and hot extrusion.

When selecting Hastelloy B2 alloy wire, it is necessary to select the appropriate specifications and sizes according to the specific process requirements and media environment to ensure that the needs of the application are met.

Hastelloy B2 alloy wire often requires monitoring and maintenance of corrosive media in the oil and gas industry to ensure the reliability and safety of equipment.

When using Hastelloy B2 alloy wire, care should be taken to avoid contact with media containing chloride ions to avoid stress corrosion cracking (SCC) of the material.

In addition to Hastelloy B2, there are other types of Hastelloy alloys (such as Hastelloy C276, Hastelloy X, etc.) that are also widely used in the oil and gas industry. Each alloy has specific corrosion resistance and mechanical properties and is suitable for different processes, needs and environmental conditions.

Parameter:

Hastelloy Alloy	Ni	Cr	Co	Mo	FE	Mn	C	P	S	Si
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B-2	Balance	1.0 max	1.0 max	26.0-30.0	2.0 max	1.0 Max	0.02 Max	0.040 max	0.030 max	0.1Max
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Typical Physical Properties

Properties	Value
Density Room Temp.	0.333lb/in ³
Melting Range	2430°F to 2520°F
Specific Heat 68°F	0.090Btu/lb. °F
Elastic Modulus 68°F	31.4*10 ⁶ psi
Thermal Conductivity 68°F	64Btu/ft.h.°F



Shape	Size(mm)
Wire	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made

Type we could offer

Product Form	Standard
Bar	ASTM B335, B564
Sheet & Plate	ASTM B333, A480
Welded Pipe	ASTM B619, B775
Seamless Pipe & Tube	ASTM B622
Welded Tube	ASTM B626



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