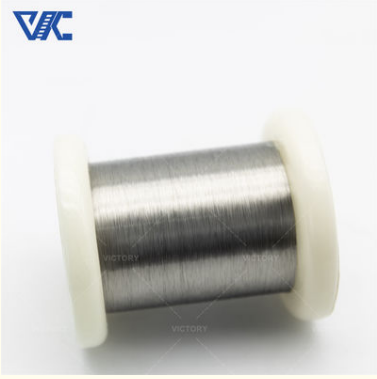
Medical Device Field Hastelloy C22 Wire Nickel Alloy Wire With Low Magnetism

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: C22
- Minimum Order Quantity: 5kg
- Price: Negotiable
- 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

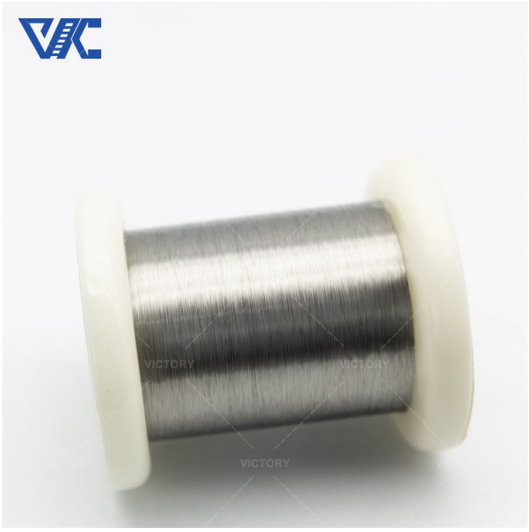
- Name: Hastelloy C22 Wire
- Type: Nickel Alloy Wire
- Material: Ni Cr Mo Fe W Co
- Application: Fracture Repair, Surgical Instruments, Microscope Parts
- Density: 8.69 G/cm³
- Elongation(%): 45%
- Melting Point: 1,355 °C
- Thermal Conductivity: 10.1 W/m·K
- Yield Strength: 275 MPa
- Tensile Strength: 690 MPa
- Brinell Hardness HB: ≤220
- Highlight: **Hastelloy C22 Wire**, **Hastelloy Nickel Alloy Wire**,

More Images

Product Description

Product Description:

Hastelloy Wire Product Overview



Hastelloy C22 alloy wire also has certain applications in the field of medical devices. Due to its excellent corrosion resistance and biocompatibility, Hastelloy C22 alloy wire is widely used in the manufacture of medical devices and key components of medical equipment.

In the field of medical devices, materials are required to have excellent corrosion resistance and be able to resist erosion by corrosive media such as body fluids, drugs, and disinfectants. Hastelloy C22 alloy wire can provide reliable anti-corrosion protection in the internal environment and will not react adversely with body fluids and chemicals, ensuring the safety and long life of medical devices.

In addition, Hastelloy C22 alloy wire has high biocompatibility and is compatible with human tissue without causing allergic reactions or toxic effects. This makes it important in the field of manufacturing implantable medical devices and surgical tools, such as artificial joints, heart stents, surgical instruments, etc.

Hastelloy C22 alloy wire also has good processability and can be cold and hot processed to meet the needs of medical devices of different shapes and sizes.

It should be noted that the design and manufacturing of medical devices should comply with relevant regulations and standards to ensure that they meet the safety and quality requirements of the medical industry.

Overall, Hastelloy C22 alloy wire has important applications in the field of medical devices. Its corrosion resistance, biocompatibility and processability make it ideal for manufacturing safe, durable and high-performance medical devices.

Characteristic:

Corrosion resistance: Hastelloy C22 alloy wire has excellent corrosion resistance and can resist a variety of corrosive media, including acidic and alkaline solutions, salt solutions, and organic solvents.

Low magnetism: Alloy wire has low magnetism and is suitable for medical device applications that require magnetic materials, such as magnetic resonance imaging (MRI) equipment.

Biocompatibility: Hastelloy C22 alloy wire has excellent biocompatibility and has no obvious toxicity or irritation to human tissues and body fluids.

Advantage:

Corrosion resistance: One of the main advantages of Hastelloy C22 alloy wire in the field of medical devices is its excellent corrosion resistance. It resists corrosion in the body's liquid environment and extends the life of medical devices.

Biocompatibility: The biocompatibility of alloy wire makes Hastelloy C22 alloy wire an ideal choice for manufacturing medical devices. It has good compatibility with human tissue and will not cause allergic reactions or other adverse effects.

Wear resistance: Hastelloy C22 alloy wire has good anti-wear properties and can resist friction and wear. It is suitable for medical devices that require long-term use and frequent movement.

Application:

Medical device components: Hastelloy C22 alloy wire can be used to manufacture key components of various medical devices, such as medical device shells, valves, pipes, connectors, etc. It resists corrosion in medical environments while maintaining the strength and stability of the material.

Orthopedic implants: Because Hastelloy C22 alloy wire has good biocompatibility, it is also used in the manufacture of orthopedic implants. It can be used to make bone plates, screws, etc. for fracture repair and orthopedic surgery.

Medical equipment: Hastelloy C22 alloy wire can be used to manufacture various medical equipment, such as surgical instruments, microscope parts, medical syringes, implantable electrodes, etc. It meets the corrosion resistance and biocompatibility requirements of medical devices.

Other relevant knowledge points:

When selecting and using Hastelloy C22 alloy wire in the field of medical devices, you need to ensure that the material complies with relevant medical device standards and regulations, such as ISO 10993 biocompatibility standards.

The processing and manufacturing of alloy wire requires strict process and production requirements to ensure the quality and safety of medical devices.

The field of medical devices has very strict requirements on materials. In addition to Hastelloy C22 alloy wire, there are other materials commonly used in medical device manufacturing, such as stainless steel, titanium alloys, polymers, etc. Selecting the appropriate material should be based on specific application needs, performance requirements and regulatory requirements.

Summary: Hastelloy C22 alloy wire has excellent corrosion resistance, biocompatibility and wear resistance in the field of medical devices. It can be used to manufacture components for medical devices, orthopedic implants and medical equipment, meeting corrosion, biocompatibility and wear resistance requirements in medical environments. When selecting and using alloy wire, it is necessary to ensure compliance with relevant standards and regulations, and to strictly control the processing and manufacturing processes to ensure the quality and safety of medical devices. In addition to Hastelloy C22 alloy wire, other materials are also commonly used in medical device manufacturing. Choosing the appropriate material should take into account the application needs, performance requirements and regulatory requirements.

Technical Parameters:

Hastelloy Alloy	Ni	Cr	Co	Mo	FE	W	Mn	C	V	P	S	Si
C22	Balance	20-22.5	2.5 Max	12.5-14.5	2.0-6.0	2.5-3.5	0.5Max	0.015 Max	0.35 Max	0.04 Max	0.03 Max	0.08 Max

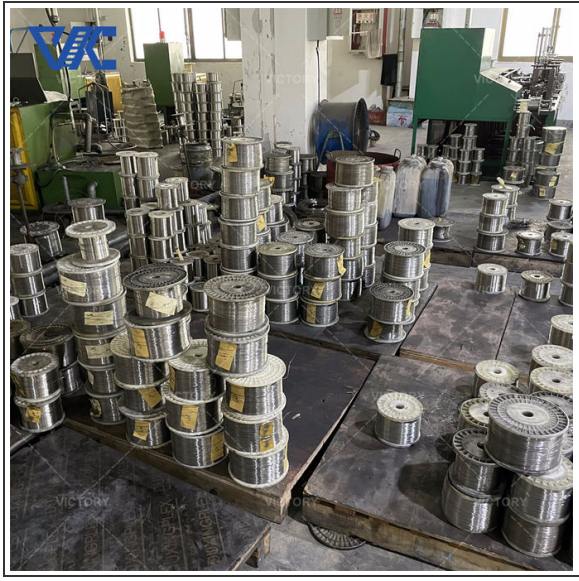
ASTM	Alloy	Type	UNS	Misc./Shape
ASTM B574 Bar	Hastelloy C22	Nickel	N06022	Bar
ASTM B575 Plate	Hastelloy C22	Nickel	N06022	Plate
ASTM B575 Strip	Hastelloy C22	Nickel	N06022	Strip
ASTM B575 Sheet	Hastelloy C22	Nickel	N06022	Sheet
ASTM B619 Welded Pipe	Hastelloy C22	Nickel	N06022	Welded Pipe
ASTM B622 Seamless Tubing	Hastelloy C22	Nickel	N06022	Seamless Tubing
ASTM B366 Fittings	Hastelloy C22	Nickel	N06022	Fittings
ASTM B574 Wire	Hastelloy C22	Nickel	N06022	Wire

Customization:

Victory Hastelloy Wire Customization Service

Wire: 0.01-10mm
Strip: 0.05*5.0-5.0*250mm
Bar: φ4-50mm;Length 2000-5000mm
Pipe: φ6-273mm;δ1-30mm;Length 1000-8000mm
Sheet: δ 0.8-36mm;Width 650-2000mm;Length 800-4500mm

contact us
email:victory@dlx-alloy.com
Oem service:
Welcome customized size
We are experience factory for OEM&ODM service



FAQ:

What is the corrosion resistance of Hastelloy C22 alloy wire?
Hastelloy C22 alloy wire has excellent corrosion resistance in acid, alkali, salt and oxidizing media, especially has good resistance to corrosive media such as sulfuric acid, chloride and ferrous chloride.

What is the thermal stability of Hastelloy C22 alloy wire?
Hastelloy C22 alloy wire has excellent thermal stability and can maintain good mechanical properties and corrosion resistance in high temperature environments.

What is the oxidation resistance of Hastelloy C22 alloy wire?
Hastelloy C22 alloy wire has good oxidation resistance and can operate stably for a long time in high-temperature oxidizing environments.

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