Ni200 Nickel Chromium Wire Pure Nickel Wires 0.025 To 10 Mm

Our Product Introduction

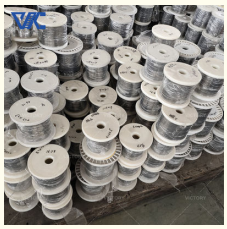
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Model Number: Ni200 Ni201
- Minimum Order Quantity: 5 Kg
- Price: 5 - 99 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

- Standard: ASTM B164, DIN 17752, JIS NW2200
- Grade Type: N4, N6, Ni200, Ni201
- Material: Ni
- Ni(min): 99%
- Melting Point: 1435-1446°C
- Elongation (≥ %): 35%
- Shape: Wire
- Ultimate Strength (≥ MPa): 462
- Application: Battery Pack, Electric Apparatus,Computers
- Size: 0.025-10mm, Can Customized
- Technique: Cold Rolled,bending,cutting,decoiling
- Density(g/cm3): 8.9

More Images



Our Product Introd

Product Description

Product Description:

Pure nickel wire is a filament-shaped product made of high-purity nickel material. It has excellent performance characteristics, including corrosion resistance, high temperature resistance, good electrical conductivity and mechanical strength.
Pure nickel wire is available in a wide range of diameters and can be customized according to customer needs. It is widely used in electronics, electrical, heating, automotive, chemical and medical fields to manufacture various equipment and devices.
The corrosion resistance of pure nickel wire enables long-term stable operation in harsh environments, including applications in chemical processing equipment, electrolyzers, and acid-base environments. Its high temperature resistance makes it difficult to deform or fail in high temperature environments, so it is widely used in high temperature furnaces and high temperature sensors.
The excellent conductive properties of pure nickel wire make it ideal for electronics and electrical applications. It is used to make resistors, inductors, wires and connectors, ensuring the conduction and stability of electrical current.

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Production steps:

The production process of pure nickel wire usually includes the following main steps:

Raw material preparation: First, you need to prepare raw materials for pure nickel wire. High-purity nickel powder or nickel alloy is usually used as raw material to ensure that the nickel wire produced has the required purity and chemical composition.

Smelting: Put the raw material nickel powder or nickel alloy into the smelting furnace for melting. During the smelting process, the temperature and atmosphere in the furnace are controlled to completely melt the raw materials and achieve the required chemical composition.

Purification: After smelting, impurities and impurities are removed through purification steps. Purification can use a variety of methods, such as electrolysis, solvent extraction or chemical treatment to improve the purity of nickel.

Wire drawing: The purified molten nickel is drawn through a wire drawing machine. Wire drawing is the process of gradually stretching and reducing the cross-sectional area of molten nickel through a series of dies and rollers to form nickel wire with the required diameter and specifications.

Annealing and cooling: The drawn nickel wire usually needs to be annealed to eliminate stress and improve the mechanical properties of the material. During the annealing process, the nickel wire is heated to the appropriate temperature and then slowly cooled to room temperature.

Surface treatment: In order to improve the surface quality and smoothness of nickel wire, surface treatment can be carried out. This may include pickling, electroplating or other chemical treatments to remove surface oxides and impurities and achieve a smooth surface.

Inspection and quality control: During the production process, various inspections and quality controls are performed on the nickel wire. This includes testing and verification of diameter, chemical composition, mechanical properties and surface quality to ensure compliance with specifications and requirements.

Packaging and leaving the factory: Finally, the pure nickel wire that has passed testing and quality control is packaged and ready to leave the factory. Depending on customer requirements, nickel wire can be packaged in coils, rolls or other forms with appropriate marking and labelling.

Annealing process:

The annealing temperature for pure nickel wire depends on the specific application and requirements. Generally speaking, the annealing temperature of pure nickel wire is usually between 600°C (1112°F) and 1000°C (1832°F).

The selection of annealing temperature is based on the following factors:

Material properties: The annealing temperature of pure nickel wire needs to consider the grain size, plasticity and strength of the material. The annealing temperature should be such that the nickel wire reaches the required crystal structure and mechanical properties.

Strain state: If the nickel wire has undergone deformation processing, the annealing temperature needs to be high enough to eliminate strain hardening and stress and restore the plasticity and strength of the material.

Process requirements: Different applications have different process requirements for pure nickel wire. The annealing temperature should be selected based on the desired material state and properties to meet process requirements.

The relationship between time and temperature: Temperature and annealing time are closely related. Higher annealing temperatures can shorten the annealing time, but care must be taken to avoid excessive grain growth or other undesirable effects caused by excessive temperatures.

Technical Parameters:

Specifications	Values
Product name	Pure Nickel Wire
Ni(min)	99%
Grade	N4,N6,Ni200,Ni201
Size	0.025-10mm
Shape	Wire
Hardness	S,1/4H,1/2H,3/4H,H
Melting Point	1435-1446°C
Elongation (≥ %)	35%
Resistance (μΩ.m)	15
Application	Industry,Electronic

Grade	Ni+Co	Cu	Si	Mn	C	Mg	S	P	Fe
N4	99.8	0.015	0.03	0.002	0.01	0.01	0.001	0.001	0.04
N6	99.6	0.10	0.10	0.05	0.10	0.10	0.005	0.002	0.10
Ni201	≥99.0	≤0.25	≤0.35	≤0.35	≤0.02	/	≤0.01	/	≤0.40
Ni200	≥99.2	≤0.25	≤0.35	≤0.35	≤0.15	/	≤0.01	/	≤0.40

For more details, pls directly contact us.

Packing:

The Nickel Wire is first wrapped in a protective layer, such as plastic or cardboard, to prevent any damage during transportation.

It is then placed in a sturdy and durable box, which is sealed to prevent any moisture or dust from entering.

The box is marked with clear and visible labels indicating the product name, size, and quantity.

For bulk orders, the Nickel Wire is packaged in large, secure containers that are suitable for transportation by land, sea, or air.

Shipping:

We offer various shipping options for our customers to choose from:

Domestic shipping within the United States is typically done through ground transportation, with estimated delivery times of 3-5 business days.

For international shipping, we work with trusted carriers to ensure timely and efficient delivery.

Customers can also opt for expedited shipping for urgent orders, with delivery times varying based on location and shipping method chosen.

All orders are tracked and customers will receive a tracking number once their order has been shipped.

We also offer the option for customers to arrange for their own shipping and pick-up from our warehouse.

At Nickel Wire, we strive to provide the best packaging and shipping services to ensure our customers receive their products in pristine condition and on time.

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

FAQ:

Will pure nickel wire oxidize in high temperature environment?
Pure nickel wire will oxidize in high temperature environments, but has good corrosion resistance and can remain stable in high temperature oxidizing environments.

Can pure nickel wire be used for electron beam welding?
Yes, pure nickel wire is often used in electron beam welding and has good welding performance and penetration performance.

Can pure nickel wire be used for electric heating devices?
Yes, pure nickel wire is often used in electric heating devices, such as heating wires, heating elements, etc., and has good high temperature resistance and resistance characteristics.

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