N4 Nickel 200 Wire Nickel Alloy Resistance Wire ASTM B166 Nickel Alloy Wire

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 wire-shaped product made of high-purity nickel material. It has outstanding performance characteristics, including excellent corrosion resistance, high temperature stability, good electrical conductivity and mechanical strength.

Pure nickel wire is available in a wide range of diameters and can be customized from microns to millimeters as required. Its low resistivity and high melting point make it widely used in electronics, electrical, heating, automotive, chemical and medical fields. Pure nickel wire can be used to manufacture resistors, inductors, heaters, fuel nozzles, medical equipment and other products, as well as chemical equipment, catalyst supports and electrolytic cells. Manufacturers can customize characteristics such as diameter, length, chemical composition and surface treatment of pure nickel wire according to customer needs. In addition, pure nickel wire has good corrosion resistance and can remain stable in high temperatures and corrosive environments. It also has a low linear expansion

coefficient and good resilience. Whether in terms of product quality or customized needs, pure nickel wire provides reliable solutions and is widely used in high-demand scenarios in various fields.

Characteristic:

Physical properties: Pure nickel wire has good ductility and plasticity and can be easily drawn into filaments. Its diameter can be very small, ranging from a few microns to a few millimeters.

Chemical properties: Pure nickel wire has good corrosion resistance to most common chemicals. It has good stability to water, air and most acids at room temperature. However, under high temperature and strong oxidizing conditions, pure nickel wire may undergo oxidation reactions.

Thermal properties: Pure nickel wire has a high melting point (about 1455 degrees Celsius) and a low linear expansion coefficient. This makes pure nickel wire have good stability and heat resistance in high temperature environments.

Application areas: Pure nickel wire is widely used in many fields. It is often used as a material for resistance wires, heating wires and heating elements. Pure nickel wire is also widely used in the chemical industry, electronics industry, aerospace and medical fields.

Features:

Product Name: Nickel Wire

Material: Ni

Standard: ASTM B164, DIN 17752, JIS NW2200

Ultimate Strength (≥ MPa): 462

Product name: Pure Nickel Wire

Grade: N4,N6,Ni200,Ni201

Product Features:

Pure nickel wire with a material of Ni

Complies with ASTM B164, DIN 17752, JIS NW2200 standards

Ultimate strength of at least 462 MPa

Available in various grades: N4, N6, Ni200, Ni201

Diameter options: 0.025 mm, 0.05 mm, 0.1 mm

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.

Application:

1. Resistance wire and electric heating elements: Pure nickel wire has high resistivity and good high temperature resistance, and is often used to manufacture resistance wire and electric heating elements, such as electric furnace heaters, heaters, electric heating wires, etc.
2. Electronic components: Pure nickel wire is widely used in the manufacture of electronic components, such as electronic parts, resistors, inductors, capacitors, wires, etc. Its high temperature stability and good electrical conductivity make it an important material in the electronics industry.
3. Wires and connectors: Pure nickel wire is used as conductor material for wires and cables, especially suitable for high temperature environments and situations with high corrosion resistance requirements. They are also widely used in electrical connection components such as connectors, sockets and insulators.
4. Precision instruments: Because pure nickel wire has excellent mechanical properties and corrosion resistance, it is widely used in the process of manufacturing precision instruments and meters. For example, pure nickel wire is used to make thermometers, pressure gauges, flow meters, optical instruments, etc.
5. Chemical industry: Pure nickel wire is used in the chemical industry to manufacture reactors, distillation equipment, catalysts and storage tanks, etc. Due to its good corrosion resistance, pure nickel wire can withstand the erosion of a variety of acidic and alkaline media.
6. Medical devices: Pure nickel wire is widely used in the field of medical devices, such as making surgical instruments, artificial joints, dental instruments, etc. Its biocompatibility and corrosion resistance make it one of the ideal materials in the medical field.

Packing and Shipping:

Packaging and Shipping of Nickel Wire

Our Nickel Wire is packaged and shipped with utmost care to ensure its safe and secure delivery to our customers.

Packaging:

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:

Is pure nickel wire made of pure nickel material?
Pure nickel wire is made of high-purity nickel material, usually with a nickel content of more than 99.5%.

Can pure nickel wire be customized as needed?
Yes, manufacturers can customize pure nickel wire according to customer needs and specifications, including diameter, length, chemical composition and surface treatment, etc.

What is the linear expansion coefficient of pure nickel wire?
The linear expansion coefficient of pure nickel wire is about 13.3×10^-6/°C, which has low thermal expansion performance.

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