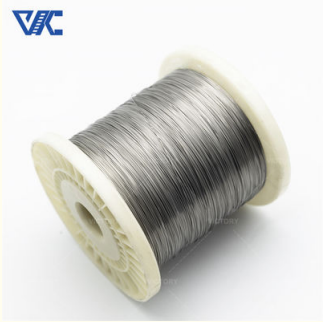
High Purity NP1 99.98% Pure Russian Nickel Wire

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

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More Images

Our Product Introd

Product Description

Product Description:

Pure nickel wire is a filament-shaped product made of high-purity nickel material. It offers outstanding performance characteristics, including excellent corrosion resistance, high temperature stability, good electrical conductivity and mechanical strength. Widely used in electronics, electrical, heating, automotive, chemical and medical fields.

In electronics, pure nickel wire is commonly used to make resistors and inductors. Its excellent electrical conductivity and high temperature stability make it an important material in electronic components.

In the field of heating, pure nickel wire is widely used in the manufacture of heaters and heating elements. Its high temperature stability and conductive properties can effectively convert electrical energy into thermal energy to meet various heating needs.

In the chemical and medical fields, pure nickel wire is used to make chemical equipment, catalyst supports, and medical devices. Its corrosion resistance allows long-term use in harsh chemical environments and has good biocompatibility.

Corrosion resistance:

Pure nickel wire has poor corrosion resistance in the following special corrosive environments:
Strong oxidizing acid: Pure nickel wire shows poor corrosion resistance in the corrosive environment of strong oxidizing acid. For example, concentrated nitric acid and concentrated oxidizing acid can cause corrosion to pure nickel wire.
Strong oxidizing alkali: Pure nickel wire also shows poor corrosion resistance in the corrosive environment of strong oxidizing alkali. For example, alkaline solutions such as concentrated sodium hydroxide and potassium hydroxide can corrode pure nickel wire.
Fluoride solution: Pure nickel wire has poor corrosion resistance in solutions containing fluoride. Fluoride ions can form a fluoride film on the surface of pure nickel wire, which may lead to increased corrosion.
Chloride solution: In some high-concentration chloride solutions, such as concentrated hydrochloric acid and seawater, the corrosion resistance of pure nickel wire is also relatively poor. Chloride ions can cause local corrosion on the surface of pure nickel wire, leading to the formation of holes and cracks.
High temperature and high humidity marine environment: In high temperature and high humidity marine environment, pure nickel wire is easily corroded by chloride ions and other salts in seawater. This corrosive environment poses a challenge to the corrosion resistance of pure nickel wire.

Factors affecting corrosion resistance:

The microstructure, impurity content and processing technology of pure nickel wire have an important impact on its corrosion resistance. Here are their influencing factors:
Microstructure: The microstructure of pure nickel wire includes factors such as grain size, grain boundary properties and crystal orientation. Larger grain sizes may cause grain boundary slip and dislocation movement to occur more easily, thereby reducing corrosion resistance. In addition, the clarity of grain boundaries and crystal orientation are also very important to prevent corrosion substances from penetrating into the material.
Impurity content: The presence of impurity elements has an important impact on the corrosion resistance of pure nickel wire. Certain impurity elements may reduce the corrosion resistance of pure nickel wire, especially in certain corrosive media. For example, excessive content of elements such as sulfur and oxygen may cause pure nickel wire to be more sensitive to corrosive media such as sulfuric acid and acid rain.
Processing technology: The processing technology also has a significant impact on the corrosion resistance of pure nickel wire. Different processing methods, such as heat treatment, cold working, annealing, etc., can change the grain size, grain boundary properties and stress distribution of pure nickel wire, thereby affecting its corrosion resistance. Proper processing technology can improve the corrosion resistance of pure nickel wire.
In summary, the microstructure, impurity content and processing technology of pure nickel wire have an important impact on its corrosion resistance. In order to obtain better corrosion resistance, the corrosion resistance of pure nickel wire can be improved by optimizing the microstructure of the material, controlling the impurity content, and selecting appropriate processing techniques.

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 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:

What are the applications of pure nickel wire in chemical production?
Pure nickel wire is often used in corrosion-resistant equipment, catalyst supports, electrochemical electrolyzers and other fields in chemical production to resist corrosion and high temperature resistance.

What is the difference between pure nickel wire and copper wire?
Pure nickel wire has a higher melting point, better corrosion resistance and lower resistivity than copper wire.

What is the corrosion resistance of pure nickel wire?
Pure nickel wire has good corrosion resistance and can maintain good stability in acidic, alkaline and oxidizing environments.

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