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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
<ul> <li>Supply Ability:</li> </ul>	300 tons per month



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1.14

# **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
<ul> <li>Elongation (≥ %):</li> </ul>	35%
Shape:	Wire
<ul> <li>Ultimate Strength (≥ MPa):</li> </ul>	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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### **Product Description**

# **Product Description:**

Pure nickel wire is a high-purity nickel product in the form of filaments. It has excellent corrosion resistance, high temperature stability, good electrical conductivity and mechanical strength. It is widely used in electronics, electrical, heating, automotive, chemical and medical fields to manufacture products such as resistors, inductors, heaters, fuel nozzles and medical devices.

In electronics, pure nickel wire is used to make resistors and inductors. Its conductive properties and stability allow electronic components to accurately control current and voltage.

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

In the automotive industry, pure nickel wire is used to make fuel nozzles. Its corrosion resistance and mechanical strength ensure long-

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term reliable operation of the nozzle in harsh environments. In the medical field, pure nickel wire is used to make medical devices such as implants and surgical tools. Its excellent corrosion resistance and biocompatibility make it widely used in medical applications.

#### Common applications of pure nickel wire:

Electronic components: Pure nickel wire is used in the manufacture of automotive electronic components, such as sensors, relays, electromagnetic coils, etc. These components play a key role in a car's electrical system, and pure nickel wire's high-temperature stability and good electrical conductivity make it an ideal material.

Exhaust systems: Pure nickel wire is used to make components of automobile exhaust systems, such as tailpipes, catalytic converters, and mufflers. Pure nickel wire has good high temperature strength and corrosion resistance, and can maintain its structural integrity in high temperature and corrosive environments.

Heaters and heat transfer systems: Pure nickel wire is used as the heating element and thermal conductive material in automotive heaters and heat transfer systems. Its high resistivity and good thermal conductivity enable it to quickly heat and transfer heat, providing a comfortable interior environment.

Spring and suspension systems: Pure nickel wire has good elasticity and corrosion resistance and is used to manufacture automobile springs and suspension systems. These components play a supporting and buffering role in the car's suspension and shock-absorbing systems. The high strength and corrosion resistance of pure nickel wire can meet these requirements.

Fuel nozzles and fuel injection systems: Pure nickel wire is used in the manufacture of automotive fuel nozzles and fuel injection systems. The corrosion resistance of pure nickel wire allows it to withstand corrosion from fuel and provide reliable fuel injection performance.

Batteries and Electric Vehicles: Pure nickel wire is widely used in car batteries and electric vehicles. It is used to make components such as battery connectors, electrodes and collectors. The high conductivity and corrosion resistance of pure nickel wire help improve battery performance and life.

### Affect properties:

The electrical conductivity and electrochemical properties of pure nickel wire have an important impact on the performance of automotive batteries. Here are the effects of these properties on several key aspects of car battery performance:

Battery efficiency: Pure nickel wire has high electrical conductivity and can provide a low-resistance current transmission path. This helps reduce resistive losses within the battery and improves battery efficiency. High conductivity also enables higher charge and discharge rates, providing faster battery response and greater power output.

Cycle life: Pure nickel wire shows good stability and corrosion resistance in electrochemical environments. This enables pure nickel wire as a battery electrode material to stably perform electrochemical reactions for a long time and reduce material failure and attenuation. Better electrochemical performance helps extend battery cycle life.

Charge and discharge performance: The electrochemical properties of pure nickel wire can affect the charge and discharge performance of the battery. High conductivity helps provide fast charge and discharge rates, resulting in shorter charging times and higher energy output. At the same time, the electrochemical stability of pure nickel wire can maintain the stability of the battery during the charge and discharge process, reducing energy loss and battery capacity attenuation.

Corrosion resistance: The electrolytes and reactants in automobile batteries may corrode the electrode materials. Pure nickel wire has good corrosion resistance and can resist the erosion of electrolytes and reactants in the battery environment, maintaining the stability and long-term reliability of the electrode.

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 ( $\geq$ %)				35%						
Resistance (μΩ.m)				15						
Application				Industry,Electronic						
			1			1	1		1	
Grade	Ni+Co	Cu	Si	Mn		С	Mg	S	Р	Fe
N4	99.8	0.015	0.03	0.0	02	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	1	≤0.01	1	≤0.40

<0.35

≤0.15

≤0.01

<0.40

#### **Technical Parameters:**

For more details, pls directly contact us.

>99.2

Ni200

#### contact us email:victory@dlx-alloy.com Oem service:

Welcome customized size We are experience factory for OEM&ODM service

≤0.25

<0.35





### FAQ:

What applications can pure nickel wire be used for? Pure nickel wire is widely used in electronics, electrical, heating, automotive, chemical and medical fields, such as resistors, inductors, heaters, fuel nozzles, medical equipment, etc. Can pure nickel wire be used in food contact applications? Yes, pure nickel wire can be used in food contact applications with safety features that meet hygienic standards. What is the thermal expansion performance of pure nickel wire? Pure nickel wire has a low coefficient of linear expansion, allowing it to have smaller dimensional changes when temperature changes

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