

# Pure Nickel Wire 99.9 99.98 Ni200 Ni201 Nickel Wire Price

for more products please visit us on victory-alloy.com

Basic Information	
Place of Origin:	China
Brand Name:	Victory
Model Number:	Ni200 Ni201
<ul> <li>Minimum Order Quantity:</li> </ul>	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



# **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
<ul> <li>Density(g/cm3):</li> </ul>	8.9



# More Images



## **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. This makes pure

nickel wire widely used in multiple industries and applications. Pure nickel wire is available in a wide range of diameters and can be customized according to customer needs. It can be used to manufacture various products such as resistors, inductors, heaters, fuel nozzles, and medical devices. Pure nickel wire also plays an important role in chemical equipment, catalyst supports, electrolyzers and other fields.

Pure nickel wire has excellent corrosion resistance and can operate stably for a long time in harsh environments. Its high temperature stability makes it ideal for high temperature applications such as heating elements and high temperature sensors. At the same time, pure nickel wire has good electrical conductivity, can effectively conduct current, and can maintain a low resistance value.

Manufacturers can customize the specifications characteristics of pure nickel wire according to customer requirements. Whether it is diameter, length, shape or surface treatment, everything can be adjusted and customized according to the customer's specific needs.

#### Corrosion resistance:

The corrosion resistance of pure nickel wire is affected by



temperature. Temperature is one of the important factors affecting the corrosion behavior of materials, and pure nickel wire is no exception. The following is the relationship between the corrosion resistance of pure nickel wire and temperature:

Acid resistance and alkali resistance: Under normal circumstances, pure nickel wire has good corrosion resistance to acidic and alkaline media at room temperature. However, as the temperature increases, the corrosion resistance of pure nickel wire may decrease Especially at high temperatures, the corrosion rate of acidic and alkaline media may increase, thereby reducing the corrosion resistance of pure nickel wire.

Oxidation resistance: Pure nickel wire has good oxidation resistance at high temperatures. The oxidation reaction rate at high temperatures is faster, but a dense oxide layer will form on the surface of pure nickel wire, which can protect its interior from further oxidation. Therefore, in high temperature environments, the oxidation resistance of pure nickel wire is still good.

Salt corrosion resistance: Temperature has a certain impact on the corrosion resistance of pure nickel wire in salt corrosion environments. Generally speaking, as the temperature increases, the salt corrosion rate may increase, thereby reducing the corrosion resistance of pure nickel wire. Especially in high temperature and high humidity marine environments, the salt corrosion resistance of pure nickel wire may be affected to a certain extent.

Therefore, when selecting pure nickel wire for a specific application, the impact of temperature factors on its corrosion resistance needs to be comprehensively considered. For applications in high-temperature environments, it may be necessary to choose a high-temperature alloy material with better high-temperature corrosion resistance, rather than just pure nickel wire.

#### How to achieve corrosion resistance:

The corrosion resistance of pure nickel wire in high temperature environments is mainly achieved through the following mechanisms: Oxide layer formation: At high temperatures, a dense oxide layer will form on the surface of pure nickel wire. This oxide layer can provide a certain isolation layer to prevent corrosive media from further eroding the interior of the pure nickel wire. The oxide layer prevents the penetration of oxygen, water vapor and other corrosive substances, thereby slowing or stopping the corrosion process.

High temperature stability: Pure nickel wire has good high temperature stability and can work stably for a long time in high temperature environments. It does not undergo phase changes or significant grain growth, thus retaining its corrosion resistance. In contrast, some other materials may undergo phase transformation, grain growth, or annealing at high temperatures, resulting in a decrease in their corrosion resistance.

High temperature strength: Pure nickel wire has high high temperature strength and can withstand stress and deformation in high temperature environments. This allows the pure nickel wire to maintain its integrity at high temperatures and is not prone to cracking or deformation, thereby protecting its surface from corrosive media.

It should be noted that the corrosion resistance of pure nickel wire is still affected by the specific corrosive medium and temperature. Under certain extreme conditions, such as high-temperature acidic media or high-temperature oxidizing environments, the corrosion resistance of pure nickel wire may be limited. In this case, consideration may need to be given to using alloyed nickel-based alloys or other more corrosion-resistant materials to meet the special high-temperature corrosion requirements.

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	

### **Technical Parameters:**

Grade	Ni+Co	Cu	Si	Mn	С	Mg	S	Р	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.

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



C +8619906119641 C victory@dlx-alloy.com C victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu