

# Good Electrical Conductivity Ni200 Ni201 Pure Nickel Bar For Electronics Industry

## **Basic Information**

Place of Origin: China

Brand Name:	Victory
Certification:	CE,ROHS,ISO 9001
Model Number:	Ni200 Ni201
Minimum Order     Quantity:	5 Kg
Price:	Negotiable
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



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之德科技有限公司

## Product Specification

Name:	Pure Nickel Bar
Grade Type:	N4, N6, Ni200, Ni201
Material:	Ni
• Ni(min):	99%
Melting Point:	1435-1446°C
<ul> <li>Elongation (≥ %):</li> </ul>	35%
<ul> <li>Ultimate Strength (≥ MPa):</li> </ul>	462 MPa
Application:	Resistors, Electrolyzers, Electronic Components
• Density(g/cm3):	8.89 G/cm <sup>3</sup>
• Surface:	Bright,Oxided
Advantage:	Corrosion-resistant,Good Strength



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## **Product Description:**

Pure nickel rod is a high-purity nickel material. Common grades include N4, N6, Ni200 and Ni201, and the nickel content is not less than 99%. It has excellent properties, with a melting point of 1435-1446°C and an elongation of 35%, a tensile strength of  $\geq$ 462 MPa, a density of 8.89 g/cm3, and the surface treatment can be bright or oxidized. Pure nickel rods have the advantages of corrosion resistance and good strength, and are widely used in resistors, electrolytic cells, electronic components and other fields. Its high-purity nickel component can provide good electrical and thermal conductivity. In the manufacturing of electronic devices, pure nickel rods are often used as electrode materials, electrical connection materials, and wire materials. Its excellent conductivity makes it ideal for current transmission, ensuring the efficient operation of electronic devices.

#### Features:

Excellent electrical conductivity: Pure nickel has high electrical conductivity and can effectively conduct electric current, making it one of the ideal materials in the electronics industry.

Good corrosion resistance: Pure nickel rods have good corrosion resistance to most chemicals and can operate stably for a long time in harsh environments.

High temperature stability: Pure nickel rods exhibit good stability in high temperature environments and can withstand the requirements in high temperature applications.

Strong plasticity: Pure nickel has good plasticity and processability, and can be processed and shaped in various ways to meet the needs of different applications.

## Specific applications:

Resistors: Pure nickel rods are commonly used in the manufacture of resistors, providing accurate and reliable resistance values due to their excellent conductivity and stability.

Electrolytic cells: Pure nickel rods are often used in the manufacture of electrolytic cells and are used as anode material in electroplating and electrolysis processes.

Electronic components: Pure nickel rods can be used to manufacture electronic components, such as capacitors, relays, sensors, etc., to meet the requirements of circuit connections and signal transmission.

## **Technical Parameters:**

Grade	Chemical Composition(%)								
	Ni+Co	Cu	Si	Mn	С	Mg	S	Р	Fe
N4/201	99.9	≤0.015	≤0.03	≤0.002	≤0.01	≤0.01	≤0.001	≤0.001	≤0.04
N6/200	99.5	0.1	0.1	0.05	0.1	0.1	0.005	0.002	0.1

#### Physical Data

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Density	8.89g/cm3
Specific Heat	0.109(456 J/kg.°C)
Electrical Resistivity	0.096×10-6ohm.m
Melting Point	1435-1446°C
Thermal Conductivity	70.2 W/m-K
Mean Coeff Thermal Expansion	13.3×10-6m/m.°C

#### **Typical Mechanical Properties**

Mechanical Properties	Nickel 200
Tensile Strength	462 Mpa
Yield Strength	148 Mpa
Elongation	47%

### **Our Production Standard**

	Bar	Forging	Pipe	Sheet/Strip	Wire
ASTM	ASTM B160	ASTM B564	ASTM B161/B163/B725/B751	AMS B162	ASTM B166

## 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

