# 99.6 % Polished Pure 200 201 Customized Size Nickel Rod Bar Used In Scientific Research Field

## **Basic Information**

• Place of Origin: China • Brand Name: Victory • Certification: CE, ROHS, ISO 9001 Ni200 Ni201 Model Number: • Minimum Order 5 Kg Quantity: • 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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### **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:	Magnetism Experiment, Temperature Control Device
• Density(g/cm3):	8.89 G/cm <sup>3</sup>
Surface:	Bright,Oxided
Advantage:	Corrosion-resistant,Good Strength



## More Images







Our Product Introduction

### **Product Description:**

Pure nickel rod is one of the key materials commonly used in laboratories and scientific research fields. It is made of highpurity nickel and has excellent physical and chemical properties.

The requirements for materials in laboratories and scientific research fields are very strict, requiring materials to have high purity, good electrical conductivity, thermal conductivity and mechanical properties. Pure nickel rods meet these requirements. Pure nickel rods are of extremely high purity, providing reliable experimental benchmarks and accurate data. Its low tolerance for impurities and adulterants ensures accurate and repeatable experimental results.

Pure nickel rods also have excellent electrical and thermal conductivity, making them widely used in fields such as electronics, materials science, and energy research. It can be used as electrode materials, substrates for electronic devices, thermal dissipation components, etc., providing reliable current and heat conduction paths for experiments and research. In addition, pure nickel rods have good mechanical properties, including strength and toughness. This allows it to withstand a wide range of loads and stresses in laboratories and scientific research areas, and is suitable for manufacturing critical components such as fixtures, support structures and mechanical devices.

### Features:

Electromagnetic properties: Pure nickel rods have good magnetic properties and can be used in magnetic experiments and research on electromagnetic devices.

Thermal expansion coefficient: Pure nickel rod has a low thermal expansion coefficient and is suitable for experimental equipment and components that require stable dimensions.

Processing performance: Pure nickel rods are easy to process and manufacture into required shapes and sizes, making them easy to customize for laboratory and scientific research applications.

#### **Parameter:**

#### **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:

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 Magnetic experiments: Pure nickel rods can be used in magnetic experiments, such as magnetic field generation, magnetic measurement, etc., to study the interaction between magnetic materials and magnetic fields.

Temperature control device: Pure nickel rods can be used to manufacture sensors, resistors, etc. in temperature control devices for temperature measurement and control in laboratories.

Battery research: Pure nickel rods can be used as electrode materials in battery research, such as electrodes for lithium-ion batteries or fuel cells, for electrochemical performance testing and analysis.



## FAQ:

What are the main advantages of pure nickel rods in laboratories and scientific research? The main advantages of pure nickel rods include good magnetic properties, stable dimensions and easy processing, making them widely used in laboratories and scientific research fields.

What are the specific applications of pure nickel rods in magnetic experiments? Pure nickel rods can be used in magnetic experiments, such as magnetic field generation and magnetometry, to study the properties of magnetic materials and magnetic field interactions.

What is the role of pure nickel rods in battery research? Pure nickel rods can be used as electrode materials in battery research, such as electrodes for lithium-ion batteries or fuel cells, for electrochemical performance testing and analysis, providing necessary tools and materials for battery research.

Changzhou Victory Technology Co., Ltd

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