

High Temperature Resistance Ni200 Ni201 Pure Nickel Bar For Aerospace 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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Product Specification

Name:	Pure Nickel Bar
Grade Type:	N4, N6, Ni200, Ni201
Material:	Ni
• Ni(min):	99%
Melting Point:	1435-1446°C
 Elongation (≥ %): 	35%
 Ultimate Strength (≥ MPa): 	462 MPa
Application:	Aero Engines, Spacecraft Structures Thermal Conductive Materials
• Density(g/cm3):	8.89 G/cm ³
Surface:	Bright,Oxided
Advantage:	Corrosion-resistant,Good Strength



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Product Description:

Pure nickel rod is one of the key materials widely used in the aerospace industry. It is made from high-purity nickel and has excellent chemical stability, mechanical properties and high temperature resistance.

The aerospace industry has very strict requirements on materials, which require good strength and corrosion resistance while maintaining stable performance under extreme temperatures and environmental conditions. Pure nickel rods meet these requirements.

Pure nickel rods have excellent high temperature performance and can maintain stable performance in extreme temperature environments. It has a low coefficient of linear expansion and excellent anti-oxidation properties, and can resist high-temperature oxidation and corrosion. This makes pure nickel rods ideal for manufacturing high-temperature components such as aerospace engines, combustion chambers and turbine blades.

In addition, pure nickel rods have good mechanical properties, including high strength and good toughness. This makes it suitable for manufacturing structural parts, connections and transmission components in the aerospace industry.

The high purity and excellent performance of pure nickel rods enable it to meet the strict material requirements of the aerospace industry and ensure the safety, reliability and performance of aircraft. Therefore, pure nickel rods are widely used in the aerospace industry and play a key role.

Features:

High-temperature strength: Pure nickel rods have excellent high-temperature strength and thermal stability, which can maintain structural integrity and performance in high-temperature environments and meet the needs of high-temperature applications such as aerospace engines.

Good corrosion resistance: Pure nickel rods have good corrosion resistance against oxidation, corrosion and high-temperature gases, and can be used for a long time in harsh environments.

Excellent mechanical properties: Pure nickel rods have good toughness, ductility and fatigue resistance, and can withstand the challenges of high stress and high load environments in the aerospace field.

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

Specific applications:

Aero-engine: Pure nickel rods are often used in the manufacture of aero-engines to manufacture key components such as blades, nozzles, turbine disks, etc. to withstand work under high temperature and high pressure conditions. Spacecraft structure: Pure nickel rods can be used in the manufacture of structural parts of spacecraft, such as rocket thrusters, liquid propulsion systems, etc., to provide high-strength and corrosion-resistant supports and connections. Thermal Conductive Materials: Pure nickel rods are also used as thermal conductive materials in the aerospace industry for applications such as thermal management systems, radiators, and heat exchangers.



FAQ:

What are the main advantages of pure nickel rods in aerospace engines?

The main advantages of pure nickel rods in aerospace engines are their high temperature strength and corrosion resistance. Aerospace engines work under extreme high temperature and pressure conditions. Pure nickel rods can maintain structural integrity and performance while resisting corrosion and oxidation, ensuring reliable engine operation.

What are the applications of pure nickel rods in spacecraft structures?

Pure nickel rods have a variety of applications in spacecraft structures. It can be used to manufacture key components such as rocket thrusters, liquid propulsion systems, and spacecraft shells, providing high-strength and corrosion-resistant supports and connections. Pure nickel rod's excellent mechanical properties and high temperature resistance make it an ideal material in spacecraft structures.

What are the thermal conduction applications of pure nickel rods in the aerospace industry? Pure nickel rods are used as thermal conductive materials in the aerospace industry. It can be applied to thermal management systems, radiators, heat exchangers and other components to effectively conduct and disperse heat to maintain the normal operating temperature of aerospace equipment. Pure nickel rod's high thermal conductivity and high temperature resistance make it an ideal choice for thermal conductivity materials.

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