

# **High Pure Nickel Tube**

Coil

Basic Information						
<ul> <li>Place of Origin:</li> </ul>	China					
Brand Name:	Victory					
Model Number:	Nickel 201					
Minimum Order Quantity:	2kg					
• Price:	\$20-\$300/kg					
Packaging Details:	Spool package with Carton box, package with polybag,					
Delivery Time:	5-21 days					
<ul> <li>Payment Terms:</li> </ul>	L/C, T/T, Western Union, Money					

- L/C, T/T, Western Union, MoneyGram
- 300 tons per month



### **Product Specification**

• Supply Ability:

<ul> <li>Product Name:</li> </ul>	Pure Nickel 200/201
• Grade:	200 201 N4 N6
Certificate:	ISO9001
<ul> <li>Material:</li> </ul>	Ni
<ul> <li>Elongation (≥ %):</li> </ul>	35
• Ni(min):	99%
<ul> <li>Application:</li> </ul>	Industry
<ul> <li>Melting Point:</li> </ul>	1435-1445°C
• M.O.Q:	1KG
<ul> <li>Delivery:</li> </ul>	7-25 Days
• Shape:	Wire
• Size:	0.025-10mm
<ul> <li>Highlight:</li> </ul>	N4 Nickel Tube, N6 Nickel Tube, 200 Nickel Pip

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## **Product Description**

### Nickel Alloy Inconel Incoloy Hastelloy Monel Nimonic Nickel 200 201 Pipe Tube

Our Product Introduc

Nickel 200 is a wrought nickel that is commercially pure, with a purity of 99.6%. It boasts excellent mechanical properties and is highly resistant to various corrosive environments. Additionally, it possesses magnetic and magnetostrictive properties, high thermal and electrical conductivities, low gas content, and low vapor pressure.

The corrosion resistance of Nickel 200 makes it ideal for applications where product purity must be maintained, such as in the handling of foods, synthetic fibers, and caustic alkalies. It is also suitable for structural applications where resistance to corrosion is a primary consideration. Other applications include chemical shipping drums, electrical and electronic parts, aerospace and missile components, and rocket motor cases. Nickel 200 performs best at temperatures below 600°F (315°C) and is not recommended for higher temperatures. For temperatures above 600°F (315°C) and up to 1250°F (677°C), Nickel 201 is preferred.

Both Nickel 200 and 201 are approved for the construction of pressure vessels and components under ASME

Boiler and Pressure Vessel Code Section VIII, Division 1. Nickel 200 can reduce the development of passive oxide films in highly oxidative media and offers excellent resistance to caustics.

Nickel 200 can be annealed over a wide range of temperatures above its recrystallization temperature. For heavily cold worked material, the temperature may be as low as 1100° to 1200°F (595° to 650°C), but typically ranges from about 1300 to 1700°F (705° to 925°C). Grain growth is rapid in Nickel 200 at elevated temperatures due to the absence of residual elements and secondary phases that inhibit grain growth in more complex alloys.

Batch annealing is typically performed in the range of 1300° to 1500°F (705° to 815°C) for about 30 minutes to 3 hours, depending on the cross-section and amount of contained cold work. The heating rate is relatively rapid due to its high thermal conductivity. The cooling rate is not critical, and quenching is not necessary except as a means to shorten the heat-treating cycle or to partially reduce any surface oxide developed during heating or cooling in an oxidizing atmosphere.

CHEMICAL C	HEMICAL COMPOSITION							
Alloy	Ni+Co %	Mn %	Fe %	Si %	Cu %	C %		
Nickel 201	Min 99.2	Max 0.35	Max 0.4	Max 0.35	Max 0.25	Max 0.02		
Niekol 200	Min	May 0.25	Max 0.4	May 0.25	Max 0.25	Max 0 15		
NICKEI 200	99	Wax 0.35	Max 0.4	Wax 0.35	IVIAX 0.25	Wax 0.15		
Physical Data	-			-				
Density	Specific Heat	Electrical Resistivit y	Melting Point	Thermal Conductivity	Mean Coeff Thermal Expansion			
8.89g/cm3	0.109(456 J/kg. °C)	0.096×10- 6ohm.m	1435-1446°C	70.2 W/m-K	13.3×10-6m/m. °C			
Typical Mecha	pical Mechanical Properties							
Mechanical Properties	Tensile Strength	Yield Strength	Elongation	Standard				
Nickel 200	462 Mpa	148 Mpa	47%	ASTM B161/B163/B72 5/B751				

Ni200 Ni201 is extremely resistance to caustic alkalies up to and including the molten state. The extra-low carbon content of Alloy 200/201 gives virtual immunity to intergranular attack above about 315°C. The presence of chlorates must be kept to aminimum, as they accelerate the rate of attack.

Good resistance to corrosion in acids and alkalis and is most useful under reducing conditions.

Outstanding resistance to caustic alkalis up to and including the molten state. In acid, alkaline and neutral salt solutions the material shows good resistance, but in oxidizing salt solutions severe attack will occur. Resistant to all dry gases at room temperature and in dry chlorine and hydrogen chloride may be used in temperatures up to 550C.

Resistance to mineral acids varies according to temperature and concentration and whether the solution is aerated or not. Corrosion resistance is better in de-aerated acid.

## Application:

- \* Manufacture and handling of sodium hydroxide, particularly at temperature above 300C.
- \* Production of viscose rayon. Manufacture of soap.
- \* Analine hydrochloride production and in the chlorination of aliphatic hydrocarbons such as benzene, methane and ethane.

\* Manufacture of vinyl chloride monomer.

- \* Reactors and vessels in which fluorine is generated and reacted with hydrocarbons.
- \* Processes using caustic alkalines
- \* Food Processing
- \* Synthethic Fiber Production

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