



Chemical Industry Inconel 601 Pipe Seamless Tube With Good Mechanical Properties

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 601
- Minimum Order Quantity: 1 Kg
- Price: Negotiable
- Packaging Details: Packed as coil. Special packaging requirements can also be accommodated. OEM is also acceptabl
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 500 Ton/Tons per Month



Product Specification

- Product Name: Inconel 601 Pipe
- Material: Ni Cr Fe
- Ni (Min): 58%
- Density: 8.11 G/cm3
- Melting Point: 1,370-1,415°C
- Tensile Strength: 550 MPa
- Yield Strength: 220 MPa
- Thermal Expansion Coefficient: $13.1 \times 10^{-6}/^{\circ}\text{C}$
- Thermal Conductivity: 9.9 W/(m·K)
- Application: Reactors, Distillation Columns, Piping Systems
- Surface: Bright,Oxidized
- Highlight: Inconel Alloy Tube, Corrosion Resistant Inconel Alloy Pipe, Nickel Alloy Inconel Tube



More Images



Product Description

Introduction:

Inconel 601 pipe is a pipe commonly used in the chemical industry. It is composed of materials such as nickel (Ni), chromium (Cr), iron (Fe) and aluminum (Al), with a minimum content of 58%, a density of 8.1 g/cubic centimeter, and a melting point of 1360 degrees Celsius. The pipe has a tensile strength of 650 MPa, an elongation of 30% and a yield strength of 300 MPa. The specific heat capacity is 477 Joules/kg·C.

Inconel 601 pipe is widely used in chemical equipment, corrosive media treatment and high temperature reactors. It has excellent corrosion resistance and high temperature stability, and can withstand corrosive media, high temperature and high pressure conditions in chemical processes. Whether in the piping system of chemical equipment or in installations handling corrosive liquids or gases, Inconel 601 pipe provides reliable performance, ensuring safe operation and long-term use of equipment.

The unique properties of this pipe make it one of the ideal choices for the chemical industry. In various chemical processes, Inconel 601 pipe can effectively resist corrosion and oxidation while maintaining good mechanical strength and heat resistance. It plays an important role in handling corrosive media, high-temperature reactors and other chemical processes, providing reliable solutions for chemical companies.

Characteristic:

Corrosion resistance: Inconel 601 pipe has excellent corrosion resistance and can resist a variety of corrosive media, including acidic, alkaline and oxidizing media. It has good corrosion resistance to common chemicals such as sulfuric acid, hydrochloric acid, nitric acid, and hydrofluoric acid.

High temperature stability: The alloy has excellent high temperature stability and can maintain good structural integrity and mechanical properties in high temperature environments. In the chemical industry, which often faces high-temperature corrosive conditions, Inconel 601 pipe provides reliable performance.

Oxidation resistance: Inconel 601 tube has good antioxidant properties and can reduce the oxidation loss of materials in high-temperature oxidizing environments.

Good mechanical properties: The alloy has excellent high-temperature strength, deformation resistance and fatigue life, and can withstand high stresses and loads in the chemical industry.

Advantage:

Corrosion resistance: Inconel 601 pipe has excellent corrosion resistance in the chemical industry. It can withstand the erosion of various acidic, alkaline and oxidizing media and is suitable for chemical equipment and pipeline systems.

Long life: Due to its corrosion resistance and high temperature strength, Inconel 601 pipe is able to provide a long service life, reducing the frequency of equipment repairs and replacements.

Good workability: The alloy has good workability and can be shaped and processed through hot and cold working methods to facilitate the manufacture of pipes and components of various shapes and sizes.

Application:

Chemical equipment: Inconel 601 pipe can be used to manufacture chemical equipment, such as reactors, distillation towers, heat exchangers, storage tanks, etc. Its excellent corrosion resistance and high temperature stability enable it to withstand corrosive media and high temperature environments in the chemical industry.

Chemical transfer pipes: This alloy is suitable for piping systems in the chemical industry to transport various chemicals and solvents. Its anti-corrosion properties ensure the reliability and safety of pipelines.

Catalyst Reactor: Inconel 601 tube can be used to manufacture catalytic reactors for various chemical reaction processes. Its high temperature stability and corrosion resistance enable it to adapt to complex reaction environments.

Other relevant knowledge points:

Inconel 601 is a nickel-chromium-iron-based alloy that contains aluminum and other elements to improve its oxidation resistance and high-temperature strength.

The alloy can further enhance its properties through heat treatment methods, such as solution treatment and aging treatment, to achieve higher strength and corrosion resistance.

In addition to the chemical industry, Inconel 601 is also widely used in petrochemical, electric power, nuclear industry and other fields, especially in equipment manufacturing and chemical reaction processes in high temperature and corrosive environments.

Parameter:

Chemical Properties of Inconel 601

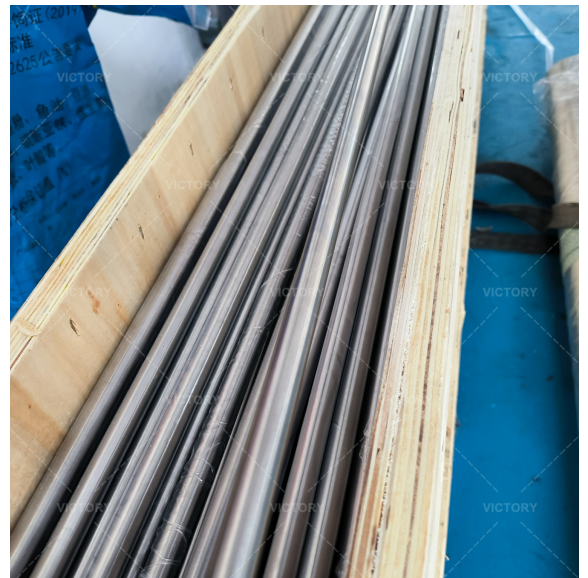
Nickel	Chromium	Iron	Aluminum	Carbon	Manganese	Sulfur	Silicon	Copper
58%-63%	21%-25%	Remainder	1%-1.7%	0.10% max	1% max	0.015% max	0.50% max	1% max

Type we could offer

AMS Number	Alloy	Type	UNS	Misc./Shape
AMS 5715	Inconel 601	Nickel	N06601	

AMS Number	Alloy	Type	UNS	Misc./Shape
AMS 5715 Bar	Inconel 601	Nickel	N06601	Bar
AMS 5715 Custom Tube	Inconel 601	Nickel	N06601	Custom Tube
AMS 5715 Forging	Inconel 601	Nickel	N06601	Forging
AMS 5715 Ring	Inconel 601	Nickel	N06601	Ring
AMS 5870	Inconel 601	Nickel	N06601	
AMS 5870 Plate	Inconel 601	Nickel	N06601	Plate
AMS 5870 Sheet	Inconel 601	Nickel	N06601	Sheet
AMS 5870 Strip	Inconel 601	Nickel	N06601	Strip

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email: victory@dlx-alloy.com
 Oem service:
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Q & A:

Q: Can Inconel 601 tubes withstand high-temperature environments?

A: Yes, Inconel 601 tubes are specifically designed to withstand high-temperature environments. They exhibit excellent high-temperature strength and oxidation resistance, making them suitable for applications in heat-treating equipment, furnaces, and exhaust systems where extreme temperatures are present.

Q: Are Inconel 601 tubes resistant to corrosion?

A: Yes, Inconel 601 tubes offer good resistance to corrosion, particularly oxidation. They withstand high-temperature corrosion, including carburization and nitridation, making them suitable for use in petrochemical processing, thermal processing, and power generation industries where corrosive environments are present.



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