



Heat Treatment Industry Nickel Alloy Inconel 601 Pipe Customized With High Temperature Resistance

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: Furnace Piping, Heating Elements, Fixtures
- Surface: Bright,Oxidized
- Highlight: **corrosion resistant inconel alloy, high temperature resistant inconel alloy**



More Images



Product Description

Introduction:

Inconel 601 pipe is a pipe widely used in the heat treatment industry. It is composed of materials such as nickel (Ni), chromium (Cr), iron (Fe) and aluminum (Al). The minimum nickel content is 58%, the density is 8.1 g/cubic centimeter, and the melting point is 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 tubes are widely used in heat treatment equipment, high temperature furnaces and furnace tubes. It has excellent corrosion resistance and high temperature strength and can withstand extreme heat treatment environments and high temperature conditions. Whether it is used for metal heat treatment in high-temperature furnaces or used in furnace tubes to transport high-temperature gases or liquids, Inconel 601 tubes can provide reliable performance to ensure stable operation and long-term use of equipment.

Its excellent performance characteristics make it one of the preferred materials in the heat treatment industry. Whether in industrial production or laboratory applications, Inconel 601 tubes are able to meet stringent requirements for high-temperature strength, corrosion resistance and heat resistance, providing reliable support for heat treatment processes.

Characteristic:

High temperature resistance: Inconel 601 pipe has excellent high temperature stability and can maintain good structural integrity and mechanical properties in high temperature environments.

Oxidation resistance: This alloy has good oxidation resistance and can reduce the oxidation loss of materials in high-temperature oxidizing environments.

Corrosion resistance: Inconel 601 pipe has good resistance to many corrosive media, including nitric acid, alkaline solutions and oxidants in the heat treatment industry.

Excellent mechanical properties: The alloy has excellent high-temperature strength, deformation resistance and fatigue life, and can withstand high stresses and loads.

Advantage:

High temperature corrosion resistance: Inconel 601 pipe has excellent corrosion resistance in high temperature corrosive environments, can withstand the erosion of acidic, alkaline and oxidizing media, and is suitable for corrosive environments in the heat treatment industry.

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:

Heat treatment furnace piping: Inconel 601 pipe can be used in furnace piping systems in the heat treatment industry, including heating furnaces, annealing furnaces, quenching furnaces, etc. Its high temperature resistance, corrosion resistance and high strength make it suitable for heat treatment processes in high temperature environments.

Heating elements: This alloy can be used to manufacture heating elements in heat treatment equipment, such as heating coils, resistance wires, heating rods, etc. Its high-temperature stability and anti-oxidation properties enable it to provide stable heating effects in high-temperature heating environments.

Heat Treatment Tools and Fixtures: Inconel 601 tube can be used to manufacture heat treatment tools and fixtures, such as fixture holders, thermal rods, etc. Its corrosion resistance and high-temperature strength enable it to withstand the effects of high-temperature environments and chemical media during heat treatment.

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 heat treatment 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 5715 Bar	Inconel 601	Nickel	N06601	Bar

AMS Number	Alloy	Type	UNS	Misc./Shape
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

contact us
email:victory@dlx-alloy.com
 Oem service:
 Welcome customized size
 We are experience factory for OEM&ODM service



Q & A:

Q: What types of services does your company provide for Inconel 601 tubes?

A: Our company offers a range of services for Inconel 601 tubes, including custom manufacturing, cutting, machining, and welding.

Q: Can your company meet urgent delivery requirements and provide fast solutions for Inconel 601 tubes?

A: Yes, our company is dedicated to meeting urgent delivery needs and providing fast solutions for Inconel 601 tubes to ensure timely completion of customer projects.



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