



Chemical Industry ASTM B637 Inconel 600 Tube With High Temperature Stability

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS, ISO 9001
- Model Number: Inconel 600
- Minimum Order Quantity: 1 Kg
- Price: Negotiable
- Packaging Details: Packed as coil. Special packaging requirements can also be accommodated. OEM is also acceptable
- 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

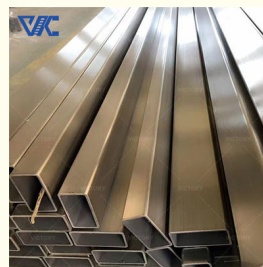
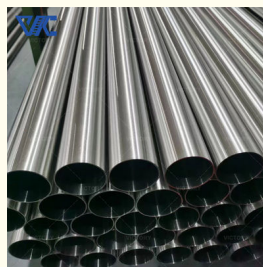


Product Specification

- Name: Inconel 600 Pipe
- Material: Ni Cr Fe
- Ni (Min): 72%
- Density: 8.47 G/cm³
- Melting Point: 1,370-1,415°C
- Tensile Strength: ≥550 MPa
- Elongation: 30%
- Yield Strength: ≥240 MPa
- Specific Heat: 444 J/kg·°C
- Application: Heaters And Furnace Tubes, Chemical Reactors
- Surface: Bright, Oxidized
- Highlight: **ASTM B637 Inconel 600 Tube, 72% Nickel Alloy Seamless Pipe, Nickel Alloy Pipe ASTM B637**



More Images



Product Description

Introduction:

Inconel 600 tubes are constructed from materials such as nickel (Ni), chromium (Cr) and iron (Fe) and provide excellent properties for a variety of applications. Its nickel content is as low as 72%, its density is 8.4 g/cubic centimeter, and its melting point is as high as 1371 degrees Celsius. The pipe has a tensile strength of 550 MPa, an elongation of 30% and a yield strength of 240 MPa. Its specific heat capacity is 444 Joules/kg-C. Inconel 600 tubes are widely used in heaters, furnace tubes and chemical reactors. Its excellent corrosion resistance and high-temperature strength enable it to provide reliable performance in demanding industrial environments. Whether in high-temperature heating equipment or chemical process reactors, Inconel 600 tubes are able to withstand extreme working conditions, ensuring stable operation and long-term use of the equipment. Its excellent performance characteristics make it one of the materials of choice in many industries.

Characteristic:

Corrosion resistance: Inconel 600 pipe has excellent corrosion resistance and performs well against corrosive media such as acids, alkalis, and salts, including stability under high temperatures and corrosive environments.

Oxidation resistance: The alloy has good oxidation resistance and can maintain structural integrity and mechanical properties in high-temperature oxidizing environments.

High temperature strength: Inconel 600 pipe has good high temperature strength and deformation resistance, and can maintain high mechanical properties under high temperature conditions.

Good welding properties: The alloy has good welding properties, which facilitates connections during manufacturing and installation.

Advantage:

Corrosion resistance: Inconel 600 pipe can withstand corrosion from strong acids, strong alkali, high temperatures and corrosive media in the chemical industry, improving the durability and service life of equipment.

Oxidation resistance: The alloy's oxidation resistance enables it to maintain structural integrity in high temperatures and oxidizing environments, reducing oxidation losses in equipment.

High temperature stability: Inconel 600 pipe can maintain high strength and mechanical properties in high temperature environments, and is suitable for high temperature chemical reactions and processing processes.

Multi-purpose applications: This alloy can be used in a variety of applications in the chemical industry, such as petroleum refining, chemical production, food processing, etc.

Application:

Heaters and furnace tubes: Inconel 600 tubes can be used to manufacture heaters and furnace tubes for high-temperature heating and heat treatment processes such as petroleum refining, chemical and power industries.

Piping system: This alloy can be used to manufacture piping systems in chemical processes, including pipes that transport corrosive media such as acids, alkalis, and salts, such as chemical production, storage tanks, and transportation pipelines.

Chemical reactors: Inconel 600 tubes can be used to manufacture chemical reactors, such as high-temperature acid-base reactors, oxidation reactors, etc. Its corrosion resistance and high temperature strength enable it to withstand corrosive media and high temperature conditions during chemical reactions.

Oil and gas processing equipment: The alloy can be used to manufacture oil and gas processing equipment, such as distillation towers, absorption towers, separators, etc. Its corrosion resistance and high temperature strength make it suitable for handling corrosive media and material separation and purification processes under high temperature conditions.

Other relevant knowledge points:

Inconel 600 is a nickel-chromium-iron-based alloy that contains small amounts of copper and other elements to improve its corrosion resistance and high-temperature strength.

The alloy has good mechanical properties, including good ductility and strength, making it suitable for complex engineering applications.

Inconel 600 is a solid solution strengthened alloy whose properties can be adjusted by controlling the content of alloying elements and the heat treatment process.

In addition to the chemical industry, Inconel 600 is also widely used in aerospace, energy, electronics and other fields, such as aircraft engine parts, nuclear power plant equipment, high-temperature stoves, etc.

When using Inconel 600 pipe, it is necessary to select the appropriate pipe diameter, wall thickness and connection method according to the specific process conditions and media to ensure the stable operation and safety of the equipment.

Parameter:

Chemical Properties of Inconel 600

Element	Percent
Nickel (plus Cobalt) (Min)	72
Chromium	14-17
Iron	6-10
Carbon (Max)	.15
Manganese (Max)	1
Sulfur (Max)	.015
Silicon (Max)	.5
Copper (Max)	.5

Type we could offer

AMS Number	Alloy	Cross Ref. Spec	Misc./Shape
AMS 5540	Inconel 600		

AMS Number	Alloy	Cross Ref. Spec	Misc./Shape
AMS 5540 Plate	Inconel 600	-	Plate
AMS 5540 Sheet	Inconel 600	-	Sheet
AMS 5540 Strip	Inconel 600	-	Strip
AMS 5580 Custom Tube	Inconel 600	-	Custom Tube
AMS 5580 Tubing	Inconel 600	-	Tubing
AMS 5665 Bar	Inconel 600	-	Bar
AMS 5665 Custom Tube	Inconel 600	-	Custom Tube
AMS 5665 Ring	Inconel 600	-	Ring
AMS 5961	Inconel 600	-	Wire

contact us

email:victory@dlx-alloy.com

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service



Q & A:

Q: Can Inconel 600 tubes be customized according to specific requirements?

A: Yes, Inconel 600 tubes can be customized to meet specific requirements, including size, shape, dimensions, and industry applications.

Q:What are some common industry applications for customized Inconel 600 tubes?

A:Some common industry applications for customized Inconel 600 tubes include aerospace, chemical processing, heat exchangers, power generation, and oil and gas exploration.



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