

Nuclear Industry Inconel 600 Alloy Tube With Corrosion 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 600
- 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

- Name: Inconel 600 Tube
- Material: Ni Cr Fe
- Ni (Min): 72%
- Density: 8.4g/cm³
- Melting Point: 1371 °C
- Tensile Strength: 550 MPa
- Elongation: 30%
- Yield Strength: 240 MPa
- Specific Heat: 444 J/kg-°C
- Application: Nuclear Reactor Components, Irradiation Equipment, Pipes And Vessels
- Surface: Bright,Oxidized
- Highlight: **Inconel Alloy Tube, Corrosion Resistant Inconel Alloy Pipe, Nickel Alloy Inconel Tube**



More Images



Product Description

Introduction:

Inconel 600 pipe is a pipe widely used in the nuclear industry. Its main components are nickel (Ni), chromium (Cr) and iron (Fe), with a minimum nickel content of 72%, a density of 8.4 g/cubic centimeter, and a melting point of 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 pipe is widely used in the nuclear industry such as nuclear reactor components, irradiation equipment, and pipes and vessels. Its excellent performance enables it to withstand the high temperature, high pressure and corrosive media in the nuclear reactor environment, ensuring the reliability and safety of the equipment. Whether in nuclear reactor components, irradiation equipment or pipes and vessels, Inconel 600 tubing provides consistent performance and meets the stringent requirements of the nuclear industry.

Characteristic:

Corrosion resistance: Inconel 600 pipe has excellent corrosion resistance and can resist the erosion of acidic media, alkaline media and oxidizing environments in the nuclear industry.

Oxidation resistance: The alloy has good oxidation resistance and can maintain structural integrity in high temperatures and oxidizing environments, reducing oxidation losses of equipment.

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

Radioactive stability: The alloy has good radioactive stability and can maintain stable structure and performance in the nuclear industry environment.

Advantage:

Corrosion resistance: Inconel 600 pipe can withstand the corrosion of acidic media, alkaline media and oxidizing environments in nuclear reactors in the nuclear industry, ensuring the stable operation and life of the 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 nuclear industrial environments, and is suitable for high-temperature conditions in nuclear reactors.

Radioactive stability: The alloy has good radioactive stability and can maintain stable structure and performance in the nuclear industry environment.

Application:

Nuclear reactor components: Inconel 600 tubes can be used to manufacture various components in nuclear reactors, such as fuel elements, fuel cladding, fuel sensors, etc. Its corrosion resistance, high temperature strength and radioactive stability make it suitable for the harsh environment of a nuclear reactor.

Irradiation equipment: This alloy can be used to manufacture irradiation equipment in the nuclear industry, such as irradiation furnace tubes, irradiation containers, etc. Its high temperature resistance, corrosion resistance and radioactive stability make it suitable for high temperature and radiation environments during irradiation processes.

Nuclear fuel processing equipment: Inconel 600 pipe can be used to manufacture pipes and containers in nuclear fuel processing equipment, such as enrichment equipment, dissolution equipment, etc. Its corrosion resistance and high temperature strength make it suitable for corrosive media and high temperature conditions during nuclear fuel processing.

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, high-temperature strength and radioactive stability.

The alloy has good mechanical properties, including good ductility and strength, making it suitable for complex applications in the nuclear industry.

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

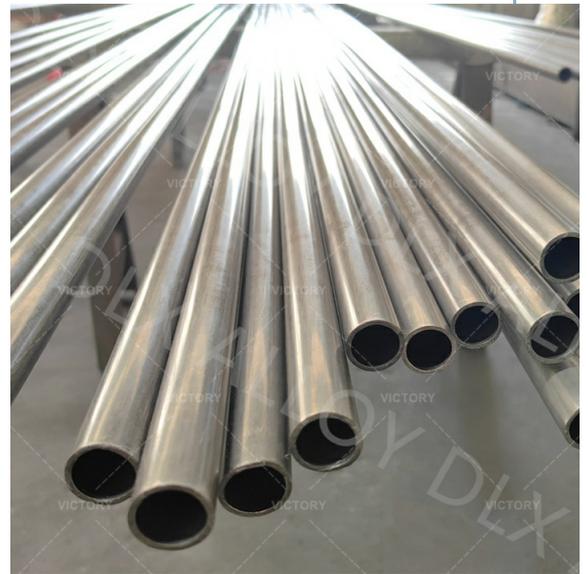
Type we could offer

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

AMS Number	Alloy	Cross Ref. Spec	Misc./Shape
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: What are the typical applications of Inconel 600 tubes?

A: Inconel 600 tubes find widespread applications in industries such as aerospace, chemical processing, and power generation.

Q: Can Inconel 600 tubes be customized for specific project requirements?

A: Yes, Inconel 600 tubes can be customized to meet specific project requirements. We offer a range of customization options, including tailored dimensions, lengths, and shapes.



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