

# Aerospace Industry Nickel Alloy Seamless Tube Inconel 600 Tube With Antioxidant

BLX

之信利技有限公司

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## **Basic Information**

<ul> <li>Place of Origin:</li> </ul>	China	V <b>E</b>
Brand Name:	Victory	V#A.
Certification:	CE,ROHS,ISO 9001	
Model Number:	Inconel 600	
Minimum Order Quantity:	1 Kg	
Price:	Negotiable	
<ul> <li>Packaging Details:</li> </ul>	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	
<ul> <li>Supply Ability:</li> </ul>	500 Ton/Tons per Month	

## **Product Specification**

• Name:	Inconel 600 Tube
Material:	Ni Cr Fe
• Ni (Min):	72%
• Density:	8.47 G/cm3
<ul> <li>Melting Point:</li> </ul>	1354-1413 ℃
<ul> <li>Tensile Strength:</li> </ul>	550 MPa
<ul> <li>Elongation:</li> </ul>	30%
<ul> <li>Yield Strength:</li> </ul>	240 MPa
Specific Heat:	444 J/kg-°C
Application:	Engine Components, Heat Exchangers, Propulsion Systems
• Surface:	Bright,Oxidized
• Highlight:	Inconel Alloy Tube, Corrosion Resistant Inconel Alloy Pipe,



# More Images



Nickel Alloy Inconel Tube



Our Product Introduction

### Introduction:

Inconel 600 pipe is a pipe widely used in the aerospace 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 tube is widely used in the aerospace industry in areas such as engine components, heat exchangers and propulsion systems. Its excellent performance enables it to withstand high temperatures, high pressures and corrosive environments, ensuring the reliability and durability of aerospace equipment. Whether in engine components, heat exchangers or propulsion systems, Inconel 600 tubes deliver superior performance and meet the demanding requirements of the aerospace industry.

#### **Characteristic:**

Corrosion resistance: Inconel 600 pipe has excellent corrosion resistance and can resist the erosion of acidic media, alkaline media and high-temperature oxidizing environments.

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

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

Low Magnetic Permeability: Inconel 600 tube has low magnetic permeability, allowing it to minimize the impact on magnetic fields in the aerospace industry.

#### Advantage:

High temperature resistance: Inconel 600 pipe has excellent stability and strength in high temperature environments and can withstand high temperature working conditions such as aerospace engines.

Lightweight: Although Inconel 600 tube has high strength and heat resistance, its density is relatively low, so it can help achieve lightweight design of aerospace structures.

Corrosion resistance: Inconel 600 pipe has good resistance to many corrosive media and can provide a long service life in harsh working environments.

High Strength: The alloy has excellent high-temperature strength and mechanical properties, allowing it to withstand high stresses and loads in aerospace applications.

#### **Application:**

Aero engine components: Inconel 600 tubes can be used to manufacture various components in aero engines, such as combustion chambers, burner nozzles, turbine blades, etc. Its high temperature resistance, corrosion resistance and high strength make it suitable for the high temperature and corrosive environment of engines.

Gas turbine heat exchangers: The alloy can be used to make heat exchangers in aerospace gas turbines for cooling and heat recovery. Its corrosion resistance and high temperature strength make it suitable for the high temperature working environment of gas turbines.

Spacecraft Propulsion Systems: Inconel 600 tubing can be used for piping and connections in spacecraft propulsion systems, such as liquid propellant pipes and propellant valves. Its corrosion resistance and high temperature resistance make it suitable for the extreme working environment of spacecraft.

#### 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 oxidation resistance.

The alloy has good processability and can be shaped and processed by hot and cold working methods.

Inconel 600 also has good weldability and reliable connection, and can be connected to other materials through various welding methods.

In addition to the aerospace industry, Inconel 600 is also widely used in the chemical industry, nuclear industry, electric power and other fields, especially in the manufacturing of equipment and components in high temperature and corrosive environments.

#### **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
<u>AMS 5540</u>	Inconel 600		
AMS 5540 Plate	Inconel 600	-	Plate

AMS Number	Alloy	Cross Ref. Spec	Misc./Shape
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
<u>AMS 5665</u> <u>Bar</u>	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



Shape	Size(mm)
WIre	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made



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