# Gas Turbine Nickel Alloy 617 Tube With High Stability

Our Product Introduction

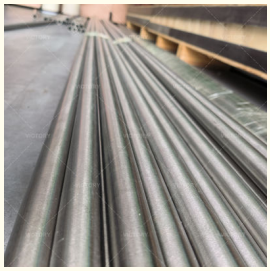
## Basic Information

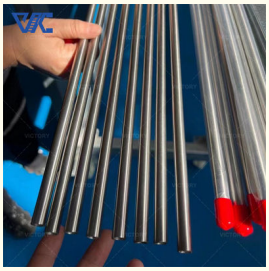
- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 617
- Minimum Order Quantity: 1 Kg
- Price: Negotiable
- Packaging Details: Packed as coil. Special packaging requirements can also be accommodated. OEM is also acceptabl
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 500 Ton/Tons per Month

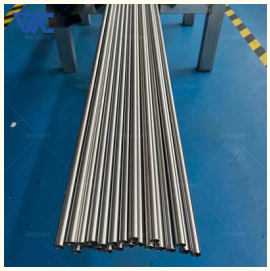
## Product Specification

- Product Name: Inconel 617 Pipe
- Material: Ni Cr Fe
- Ni (Min): 44.5%
- Elongation: 30%
- Density: 8.36 G/cm3
- Melting Point: 1350 °C
- Tensile Strength: 690 MPa
- Yield Strength: 310 MPa
- Application: Combustion Chamber Components, Exhaust Ducts
- Thermal Expansion Coefficient: 12.7 X 10 ^ -6/°C
- Thermal Conductivity: 10.8 W/m · K
- Highlight: **Inconel Alloy Tube**, **Corrosion Resistant Inconel Alloy Pipe**, **Nickel Alloy Inconel Tube**

## More Images







## Product Description

Our Product Introduction

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## Introduction:

Inconel 617 tube is a high-performance nickel-chromium-cobalt alloy material with important applications in the gas turbine field. It has excellent high-temperature strength, corrosion resistance and oxidation resistance, and can maintain stable performance in extreme high temperatures and corrosive environments.
In gas turbines, Inconel 617 tubes are widely used in high-temperature components such as combustion chambers, burners, and heat exchangers. It can withstand the strength requirements in high-temperature environments, resist corrosion and oxidation, and ensure the efficient operation and long-term stability of the gas turbine.
As a material with good plasticity, Inconel 617 pipe facilitates the manufacture of pipes and equipment of various shapes and sizes to meet the manufacturing needs of complex gas turbine components. Its excellent performance and reliability make Inconel 617 tube an important choice in the field of gas turbines, providing reliable solutions for gas turbines in high-temperature and highly corrosive environments.

## Characteristic:

High temperature resistance: Inconel 617 pipe can maintain high stability and strength in extremely high temperature environments, and can withstand temperatures up to 1200°C.
Corrosion resistance: The pipe has good resistance to oxidizing and reducing environments, and can resist corrosive media such as acid, alkaline and salt solutions.
Oxidation resistance: Inconel 617 pipe can resist oxidation and hot corrosion at high temperatures and has excellent antioxidant properties.

## Advantage:

High temperature stability: Inconel 617 pipe can maintain high strength and stability under high temperature conditions and is not easy to deform and break. It is suitable for the manufacturing of high temperature components of gas turbines.
Corrosion resistance: Inconel 617 pipe has good resistance to common corrosive media in gas turbines, which can reduce corrosion losses and maintenance costs of parts.

## Application:

Combustion Chamber Components: Inconel 617 tubes are often used to manufacture gas turbine combustor components, such as combustor walls, nozzles, and combustor liners. It can withstand high temperatures and corrosive gases while possessing high strength and durability.
Heat Exchangers: Inconel 617 tubes can be used for heat exchanger piping in gas turbines. It can withstand high temperature working media and corrosive conditions and is used to transfer heat and enhance thermal energy conversion efficiency.
Exhaust piping: Inconel 617 pipe can be used in the manufacture of gas turbine exhaust piping. It has high temperature stability and corrosion resistance, and can withstand the erosion of high temperature exhaust gas flow and corrosive media.

## Other relevant knowledge points:

Gas turbine is a commonly used power device widely used in power plants, petrochemical industry, aviation and other fields. In high temperatures and corrosive environments, material selection is critical to gas turbine performance and longevity.
Inconel 617 tubing is a commonly used high-temperature alloy material in gas turbines, but there are other alternatives and the specific choice needs to be evaluated based on specific requirements and operating conditions.
The design and manufacture of gas turbines requires compliance with relevant standards and specifications to ensure the performance, safety and reliability of the equipment.

Parameter:

### Chemical Properties of Inconel 617

| UNS Designation | Inconel Alloy | Nickel | Cromium | Cobalt | Molybdenum | Aluminium | Carbon | Iron | Manganese | Silicon | Sulfur | Titanium | Copper | Boron |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N06617 | 617 | 44.5 min. | 20.0 - 24.0 | 10.00 - 15.00 | 8.0 -10.0 | 0.8-1.5 | 0.05 -0.15 | 3.0max | 1.0 max. | 3.0max | 0.015 max. | 0.6 max | 0.5 max. | 0.006 max |

### Type we could offer

| AMS Number | Alloy | Type | UNS | Cross Ref. Spec | Misc./Shape |
|---|---|---|---|---|---|
| **AMS 5887** | Inconel 617 | Nickel | N06617 | | |
| AMS 5887 Bar | Inconel 617 | Nickel | N06617 | - | Bar |
| AMS 5887 Custom Tube | Inconel 617 | Nickel | N06617 | - | Custom Tube |

| AMS Number | Alloy | Type | UNS | Cross Ref. Spec | Misc./Shape |
|---|---|---|---|---|---|
| AMS 5887 Forging | Inconel 617 | Nickel | N06617 | - | Forging |
| AMS 5887 Ring | Inconel 617 | Nickel | N06617 | - | Ring |
| **AMS 5888** | Inconel 617 | Nickel | N06617 | - | Plate |
| **AMS 5889** | Inconel 617 | Nickel | N06617 | | |
| AMS 5889 Sheet | Inconel 617 | Nickel | N06617 | - | Sheet |
| AMS 5889 Strip | Inconel 617 | Nickel | N06617 | - | Strip |

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


## Q & A:

Q: How do you ensure the quality of Inconel 617 tubes?
A: We employ rigorous testing and inspection methods to ensure the quality of Inconel 617 tubes. This includes non-destructive testing, such as ultrasonic testing and visual inspections, to detect any defects or flaws in the tubes.

Q: Are your Inconel 617 tubes certified to meet specific specifications or standards?
A: Yes, our Inconel 617 tubes are manufactured and certified to meet specific specifications and industry standards. We ensure that our tubes undergo thorough testing and meet the required mechanical, chemical, and dimensional requirements.

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