



## Preservative Astm B167 Inconel 617 Seamless Pipe For Nuclear Industry

Our Product Introduction

for more products please visit us on [victory-alloy.com](http://victory-alloy.com)

### 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 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

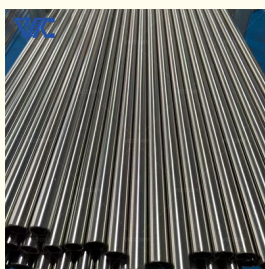
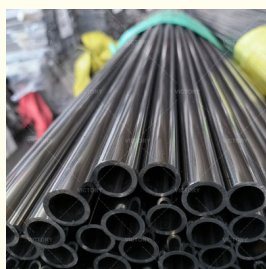


### Product Specification

- Product Name: Inconel 617 Pipe
- Material: Ni Cr Fe
- Ni (Min): 44.5%
- Elongation: 30%
- Density: 8.36 G/cm<sup>3</sup>
- Melting Point: 1350 °C
- Tensile Strength: 690 MPa
- Yield Strength: 310 MPa
- Application: Nuclear Reactor, Heat Exchanger Pipes
- Thermal Expansion Coefficient: 12.7 X 10<sup>-6</sup> /°C
- Thermal Conductivity: 10.8 W/m · K
- Highlight: corrosion resistant inconel alloy, high temperature resistant inconel alloy



### More Images



### Product Description

## Introduction:

Inconel 617 tube is a high-performance nickel-chromium-cobalt alloy material with important applications in the nuclear industry. It has excellent high-temperature strength, corrosion resistance and radiation resistance, allowing it to withstand extreme operating conditions in nuclear industry applications such as nuclear reactors.

In the nuclear industry, Inconel 617 tubes are widely used in key components of nuclear reactors, such as fuel rods, heat exchangers and cladding. It can withstand the requirements of high temperature, high pressure and radiation environment, and has excellent corrosion resistance, resisting the erosion of corrosive media in the nuclear industry.

Inconel 617 tubes also have good radiation resistance and can maintain their mechanical properties and structural integrity in nuclear radiation environments. This makes it ideal for critical components in the nuclear industry, ensuring the safety and reliability of nuclear reactors.

As a malleable material, Inconel 617 pipe facilitates the manufacture of pipes and equipment of various shapes and sizes to meet the manufacturing needs of complex components in the nuclear industry.

## 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 in the nuclear industry.

Corrosion resistance: Inconel 617 pipe has good resistance to common corrosive media in the nuclear industry, which can reduce corrosion losses and maintenance costs of nuclear facility components.

## Application:

Nuclear reactor components: Inconel 617 tubes are often used in the manufacture of nuclear reactor components, such as fuel element brackets, fuel element housings, fuel pipes, etc. It can withstand high temperatures and corrosive media while possessing high strength and durability.

Heat exchangers: Inconel 617 tubes can be used for heat exchanger piping in the nuclear industry. It can withstand high temperature working media and corrosive conditions and is used to transfer heat and enhance thermal energy conversion efficiency.

Nuclear waste disposal equipment: Inconel 617 pipe can be used in pipes and vessels in nuclear waste disposal equipment. It can withstand high temperatures and corrosive media and is used for safe handling and storage of nuclear waste.

## Other relevant knowledge points:

The nuclear industry refers to various fields related to nuclear energy, including nuclear power plants, nuclear fuel processing, nuclear waste processing, etc. In the nuclear industry, material selection requires considerations such as high-temperature performance, radiation tolerance, corrosion resistance, and compatibility with nuclear fuel and radiation environments.

Inconel 617 tubing is a commonly used high-temperature alloy material in the nuclear industry, but there are other alternatives available and the choice needs to be evaluated based on specific requirements and operating conditions.

The design and manufacture of nuclear industry equipment needs to follow strict nuclear safety standards and specifications to ensure the safety, reliability and compliance of the equipment with nuclear industry regulations.

## Parameter:

### Chemical Properties of Inconel 617

UNS Designation	Inconel Alloy	Nickel	Chromium	Cobalt	Molybdenum	Aluminum	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.	0.006max

### 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

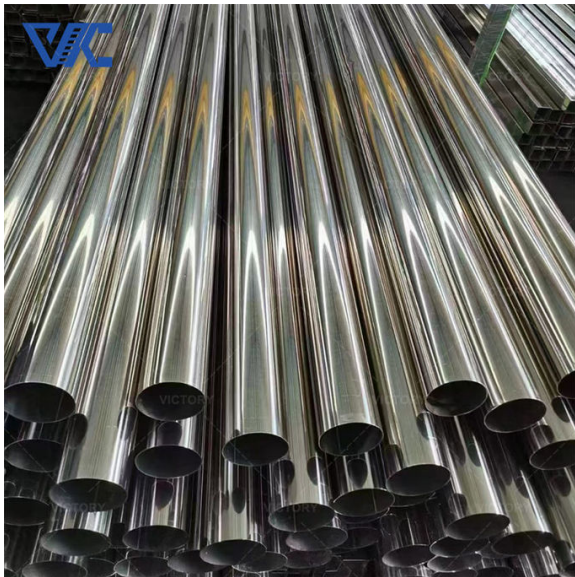
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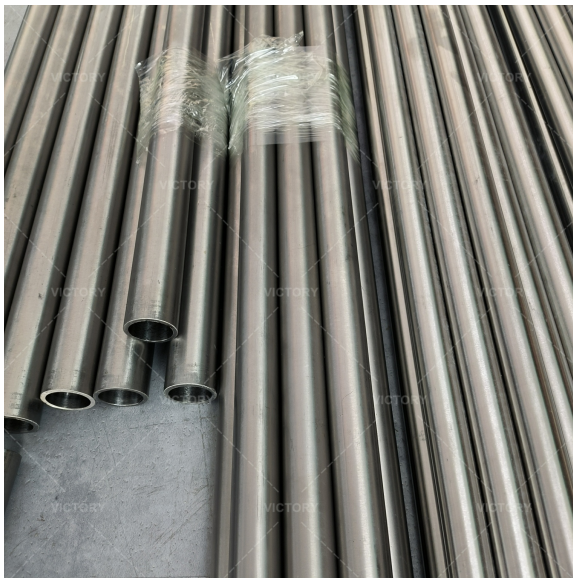
**email: [victory@dlx-alloy.com](mailto:victory@dlx-alloy.com)**

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service





#### Q & A:

Q: Can your company provide customized Inconel 617 tube solutions?

A: Yes, we offer customized solutions for Inconel 617 tubes. Our experienced team works closely with customers to understand their specific requirements and tailor the tubes to their desired dimensions, lengths, and shapes.

Q: What customization options are available for Inconel 617 tubes?

A: We provide various customization options for Inconel 617 tubes. These include customized dimensions, lengths, and shapes to suit specific project requirements.



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