



## 0.1mm 0.15mm 0.2mm Thickness Nickel Plated Steel Strip Inconel 617 Strip

Our Product Introduction

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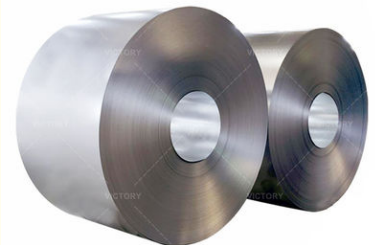
### Basic Information

- 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: 100 Ton/Tons per Month

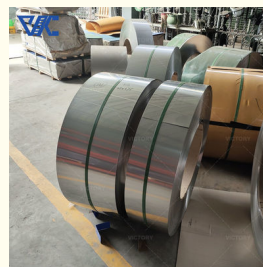


### Product Specification

- Product Name: Inconel 617 Strip
- Material: Ni Cr Fe
- Ni (Min): 44.5%
- Elongation ( $\geq$  %): 30%
- Density: 8.36 G/cm<sup>3</sup>
- Melting Point: 1350 °C
- Tensile Strength: 690 MPa
- Yield Strength: 310 MPa
- Application: Nuclear Reactor Components, Heat Exchanger Components
- Thermal Expansion Coefficient:  $12.7 \times 10^{-6} / ^\circ\text{C}$
- Thermal Conductivity: 10.8 W/m · K
- Highlight: Inconel 617 Strip, 0.2mm Thickness Inconel Alloy, 0.1mm Thickness Inconel Alloy



### More Images



### Product Description

## Introduction:

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

In the nuclear energy industry, Inconel 617 tape is widely used in key components of nuclear reactors, such as fuel elements, molten salt storage and nuclear fuel recovery equipment. It is able to withstand extreme environments of heat, radiation and corrosion while maintaining the strength and structural integrity of the material.

Inconel 617 tape has excellent corrosion resistance and can resist the erosion of corrosive media produced in the nuclear industry, including high-temperature water vapor, acidic and alkaline solutions, etc. This makes it ideal for a variety of components in the nuclear energy industry involving corrosive environments.

In addition, Inconel 617 tape also has good radiation resistance and can maintain its mechanical properties and structural integrity in a nuclear radiation environment. This is critical for structural materials in the nuclear energy industry to ensure safety and reliability.

## Characteristic:

**High temperature resistance:** Inconel 617 tape is able to maintain high stability and strength in extremely high temperature environments, and can withstand temperatures up to 1200°C.

**Corrosion resistance:** The strip has good resistance to oxidizing and reducing environments, and can resist corrosive media such as acidic, alkaline and salt solutions.

**Oxidation resistance:** Inconel 617 tape can resist oxidation and hot corrosion at high temperatures and has excellent antioxidant properties.

## Advantage:

**High-temperature stability:** Inconel 617 tape can maintain high strength and stability under high-temperature conditions and is not easy to deform and crack. It is suitable for the manufacturing of high-temperature components in the nuclear energy industry.

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

## Application:

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

**Heat exchangers:** Inconel 617 tape can be used in the nuclear energy industry for heat exchanger components such as tube bundles. It can withstand high temperature working media and corrosive conditions and is used to transfer heat and enhance thermal energy conversion efficiency.

**Nuclear waste treatment equipment:** Inconel 617 tape can be used for components such as pipes, containers and seals in nuclear waste treatment 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 energy industry refers to a series of technologies and facilities that use nuclear reactions to generate energy, including nuclear power plants, nuclear fuel processing, nuclear waste treatment, etc. In the nuclear energy industry, material selection requires considerations such as high-temperature performance, radiation tolerance, corrosion resistance, and compatibility with nuclear fuel and radiation environments.

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

The design and manufacture of nuclear energy 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

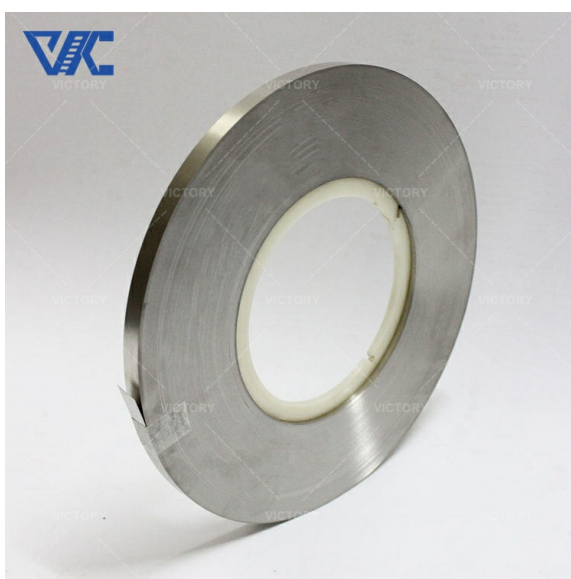
UNS Designation	Inconel Alloy	Nickel	Chromium	Cobalt	Molybdenum	Aluminum	Carbon	Iron	Manganese	Silicon	Sulfur	Titanium	Copper	Boron
N06617	617	44.5 min.	20.0 - 24.0	10.00 - 15.00	8.0 - 10.0	0.8-1.5	0.05 - 0.15	3.0max	1.0 max.	3.0max	0.015 max.	0.6 max	0.5 max.	0.006 max

### Type we could offer

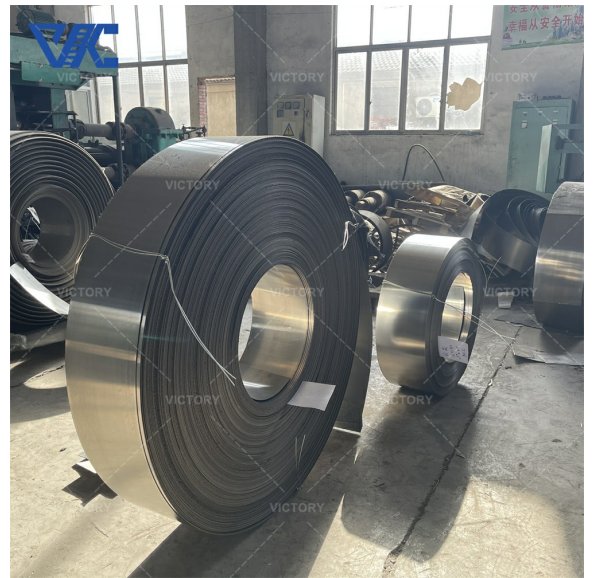
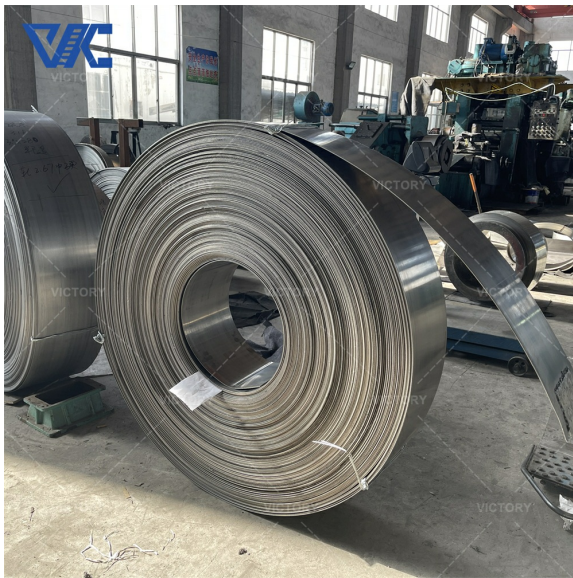
AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 5887	Inconel 617	Nickel	N06617		
AMS 5887 Bar	Inconel 617	Nickel	N06617	-	Bar

AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 5887 Custom Tube	Inconel 617	Nickel	N06617	-	Custom Tube
AMS 5887 Forging	Inconel 617	Nickel	N06617	-	Forging
AMS 5887 Ring	Inconel 617	Nickel	N06617	-	Ring
<b>AMS 5888</b>	Inconel 617	Nickel	N06617	-	Plate
<b>AMS 5889</b>	Inconel 617	Nickel	N06617	-	
AMS 5889 Sheet	Inconel 617	Nickel	N06617	-	Sheet
AMS 5889 Strip	Inconel 617	Nickel	N06617	-	Strip

**contact us**  
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 Oem service:  
 Welcome customized size  
 We are experience factory for OEM&ODM service



Size Range	
Wire	0.05-8.0mm
Rod/Bar	8.0-200mm
Strip	(0.05-0.5)*(5-200)mm
Plate	custom made
Tube	custom made



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