



## High Temperature Nickel Foil Alloy Inconel 601 Strip For Oil And Gas Industry

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 601
- 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: 100 Ton/Tons per Month

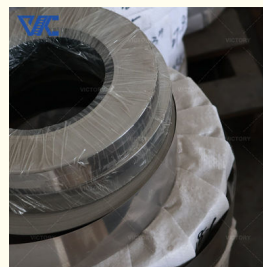


### Product Specification

- Product Name: Inconel 601 Strip
- Material: Ni Cr Fe
- Ni (Min): 58%
- Density (g/m3): 8.11 G/cm3
- Melting Point: 1,370-1,415°C
- Tensile Strength: 550 MPa
- Yield Strength: 220 MPa
- Thermal Expansion Coefficient:  $13.1 \times 10^{-6}/^{\circ}\text{C}$
- Application: Furnace And Radiant Tubes, Burner Elements
- Thermal Conductivity: 9.9 W/(m·K)
- Highlight: Inconel 601 Strip, 61% Nickel Foil Alloy Strip, Inconel Alloy 601 Strip



### More Images



### Product Description

## Introduction:

Inconel 601 belt is a high performance nickel-chromium alloy material widely used in the oil and gas industry. The product has excellent high temperature resistance and is able to maintain its mechanical properties and structural integrity under extreme temperature and pressure conditions. In the oil and gas industry, Inconel 601 tape is commonly used in equipment such as high-temperature furnaces, burners, pipes, and heat exchangers to cope with harsh working environments and high-temperature corrosion. Inconel 601 belt has excellent corrosion resistance and can resist the erosion of corrosive media such as hydrogen sulfide, acid gas and salt water. This makes it ideal for use in the oil and gas industry when handling sour reservoirs, seawater injection, and environments with high hydrogen sulfide content. The product also has good plasticity, with an elongation rate of more than 35%, making it easy to manufacture oil and gas equipment of various shapes and sizes. Its thermal conductivity is 14.9 Watt/meter-Kelvin, which helps to conduct heat quickly and improve the thermal efficiency and thermal conductivity of the equipment. In short, Inconel 601 belt, as a high-performance nickel-chromium alloy material, has excellent high temperature resistance, corrosion resistance and mechanical properties, and is widely used in high temperature, high pressure and corrosive environments in the oil and gas industry. It provides reliable, durable solutions that meet the stringent material performance and reliability requirements of the oil and gas industry.

## Characteristic:

**High temperature resistance:** Inconel 601 tape can maintain high stability and strength in 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 corrosion from many acidic, alkaline and salt solutions.  
**Oxidation resistance:** Inconel 601 tape can resist oxidation and hot corrosion at high temperatures and has excellent antioxidant properties.

## Advantage:

**High temperature stability:** Inconel 601 tape can maintain high strength and stability under high temperature conditions, is not prone to deformation and rupture, and is suitable for applications in high temperature processes and environments.  
**Corrosion resistance:** Inconel 601 tape has good resistance to corrosive media commonly found in the oil and gas industry, which can reduce equipment corrosion losses and maintenance costs.

## Application:

**Furnace and radiant tubes:** Inconel 601 tape is commonly used for furnace and radiant tubes in oil and gas heating equipment. It can withstand high temperatures and corrosive gases while possessing high strength and durability.  
**Burner Elements:** Inconel 601 tape can be used to manufacture elements in oil and gas burners such as nozzles, spark racks and diffusers. These components need to have good high temperature stability and corrosion resistance.  
**Pipes and Valves:** Inconel 601 tape can be used in pipe and valve manufacturing in the oil and gas industry. It can resist corrosion from acidic and alkaline media and maintain stability in high temperature and high pressure environments.

## Other relevant knowledge points:

In the oil and gas industry, material selection requires consideration of several factors, including high-temperature performance, corrosion resistance, mechanical properties, and compatibility with specific media. Inconel 601 strip is a commonly used high-temperature alloy material in the oil and gas industry, but there are other alternatives and the choice needs to be evaluated based on specific requirements and environmental conditions. Equipment design and manufacturing in the oil and gas industry requires compliance with relevant standards and specifications to ensure equipment safety, reliability and compliance with regulatory requirements.

## Parameter:

### Chemical Properties of Inconel 601

| Nickel  | Chromium | Iron      | Aluminum | Carbon    | Manganese | Sulfur     | Silicon   | Copper |
|---------|----------|-----------|----------|-----------|-----------|------------|-----------|--------|
| 58%-63% | 21%-25%  | Remainder | 1%-1.7%  | 0.10% max | 1% max    | 0.015% max | 0.50% max | 1% max |

### Type we could offer

| AMS Number           | Alloy       | Type   | UNS    | Misc./Shape |
|----------------------|-------------|--------|--------|-------------|
| AMS 5715             | Inconel 601 | Nickel | N06601 |             |
| AMS 5715 Bar         | Inconel 601 | Nickel | N06601 | Bar         |
| AMS 5715 Custom Tube | Inconel 601 | Nickel | N06601 | Custom Tube |

| AMS Number       | Alloy       | Type   | UNS    | Misc./Shape |
|------------------|-------------|--------|--------|-------------|
| AMS 5715 Forging | Inconel 601 | Nickel | N06601 | Forging     |
| AMS 5715 Ring    | Inconel 601 | Nickel | N06601 | Ring        |
| AMS 5870         | Inconel 601 | Nickel | N06601 |             |
| AMS 5870 Plate   | Inconel 601 | Nickel | N06601 | Plate       |
| AMS 5870 Sheet   | Inconel 601 | Nickel | N06601 | Sheet       |
| AMS 5870 Strip   | Inconel 601 | Nickel | N06601 | Strip       |

**contact us**  
**email:victory@dlx-alloy.com**  
 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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