# Chemical Industry Nickel Alloy UNS N06600 Inconel 600 Wire With Corrosion Resistance

Our Product Introduction

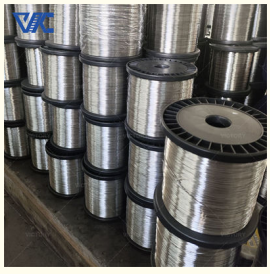
## Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 600
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel 718 wire packed in Spool Carton box, Coil package with polybag,then in woodencase
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

## Product Specification

- Name: Inconel 600 Wire
- Material: Ni Cr Fe
- Nickel(Min): 72%
- Density: 8.47 G/cm3
- Melting Point: 1,370-1,415
- Tensile Strength: ≥550 MPa
- Yield Strength: ≥240 MPa
- Elongation: ≥30%
- Application: Pickling Equipment Pipes And Valves Reactors Distillation Columns
- Sureface: Bright,Oxided
- Highlight: **718 Inconel Alloy**, **X750 Inconel Alloy**, **Inconel 600 Wire**

## More Images



## Product Description

Our Product Introduction

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## Product Description:

Inconel 600 Wire

Inconel 600 Wire is a highly versatile wire made from the durable and corrosion-resistant alloy known as Inconel 600. Composed primarily of nickel, chromium, and iron, this wire exhibits exceptional properties that make it well-suited for demanding applications in the chemical industry. With a minimum nickel content of 72%, it boasts a high level of resistance to corrosive environments, including acids and alkalis.

The Inconel 600 Wire has a density of 8.47 g/cm3 and a melting point ranging from 1,370 to 1,415 , enabling it to withstand high temperatures without sacrificing its structural integrity. Its impressive tensile strength of ≥550 MPa and yield strength of ≥240 MPa ensure its reliability and durability in various operating conditions.

With a minimum elongation of 30%, this wire exhibits excellent ductility, allowing for easy forming and shaping. It is available in bright and oxidized surface finishes, providing options to suit different aesthetic and functional requirements.
In the chemical industry, Inconel 600 Wire finds extensive use due to its remarkable resistance to corrosion, high-temperature stability, and mechanical strength. It is employed in applications such as chemical processing equipment, heat exchangers, furnace components, and piping systems where reliability and resistance to harsh chemical environments are paramount.

Overall, Inconel 600 Wire stands as a reliable and indispensable material, offering exceptional performance, longevity, and versatility in the demanding chemical industry.

## Characteristic:

Corrosion resistance: Inconel 600 alloy wire can resist erosion by a variety of corrosive media, including acidic and alkaline solutions, chlorides and oxidizing media.
High temperature strength: This alloy wire has excellent high temperature strength and heat resistance, and can maintain its mechanical properties and strength in high temperature environments.
Anti-oxidation performance: Inconel 600 alloy wire has good anti-oxidation performance and can remain stable in high-temperature oxidizing environments and extend its service life.
Low Magnetism: Alloy wire has low magnetism and is suitable for chemical processing industrial applications that are sensitive to magnetic requirements.

## Advantage:

Nickel-based alloy: As a nickel-based alloy, Inconel 600 alloy wire has excellent corrosion resistance and high-temperature strength, and is suitable for corrosive environments and high-temperature processes in various chemical processing industries.
Versatile applications: This alloy wire can be used to manufacture chemical processing equipment and components to meet different process needs.
Long life and reliability: The corrosion resistance and high temperature strength of Inconel 600 alloy wire enable equipment and components to resist corrosion and high temperature environment erosion, improving the durability and reliability of equipment.

## Specific applications:

Inconel 600 alloy wire has many specific applications in the chemical processing industry. Here are some common applications:
Pickling equipment: Inconel 600 alloy wire is often used in the manufacture of pickling equipment in chemical processing, such as pickling tanks, pickling pipes and pickling tanks. These devices need to be acid-resistant to withstand the attack of strong acid solutions, and the corrosion resistance of Inconel 600 alloy wire makes it an ideal choice.
Reactors and Distillation Columns: Inconel 600 alloy wire is widely used in the chemical processing industry to manufacture reactors, distillation columns and separation equipment. These equipment work in environments with high temperatures and corrosive media, requiring materials with excellent high-temperature strength and corrosion resistance. Inconel 600 alloy wire is resistant to corrosion from acidic, alkaline and oxidizing media while maintaining high strength at high temperatures, making it ideal for these applications.
Pipes and Valves: Inconel 600 alloy wire is commonly used to make pipes, valves and connections in chemical processing systems. These components need to have excellent corrosion resistance to cope with the corrosive media during processing. Inconel 600 alloy wire can resist the erosion of acidic solutions, alkaline solutions, chlorides and oxidizing media, while maintaining high strength and durability to ensure reliable operation of the system.
Heat exchangers: Inconel 600 alloy wire is also used to manufacture heat exchangers in the chemical processing industry. Heat exchangers are used to transfer heat during chemical processing and require materials with good corrosion resistance and high temperature strength. Inconel 600 alloy wire can maintain stable performance under high temperatures and corrosive media, allowing the heat exchanger to operate for a long time without being affected by corrosion and high temperature environments.
In summary, Inconel 600 alloy wire has excellent corrosion resistance and high temperature strength in the chemical processing industry. It is widely used in the manufacture of chemical processing equipment and components, capable of resisting erosion from corrosive media and high-temperature environments, and ensuring long-term stable operation of equipment. The chemical processing industry relies on the excellent performance of Inconel 600 alloy wire to improve process efficiency and equipment reliability, and promote the development of chemical process technology.

## Parameter:

Alloy composition: nickel (≥72%), chromium (≥14%), iron (≤6%), carbon (≤0.15%), copper (≤0.5%), silicon (≤0.5%), etc.
Density: 8.47 g/cm³.
Melting point: 1,370-1,415 .
Tensile strength: ≥550 MPa.
Yield strength: ≥240 MPa.
Elongation: ≥30%.

| Item | C | Mn | Fe | P | S | Si | Cu | Ni | Co | Al | Ti | Cr | Nb+Ta | Mo | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inconel 600 | ≤0.15 | ≤1 | 6-10 | ≤0.015 | ≤0.015 | ≤0.5 | ≤0.5 | ≥72 | -- | -- | -- | 14-17 | -- | -- | -- |

| 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 |

| Size Range (mm) | |
|---|---|
| Wire | 0.5-7.5 |
| Rod/Bar | 8.0-200 |
| Strip | (0.50-2.5)*(5-180) |
| Tube | custom made |
| Plate | custom made |

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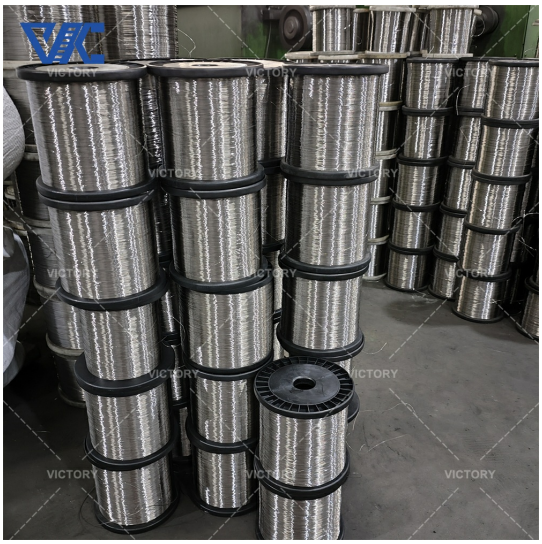
Oem service:
Welcome customized size
We are experience factory for OEM&ODM service



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