



## High Quality Nickel Based Alloy Inconel 625 600 601 718 X-750 Spring Wire Price

Our Product Introduction

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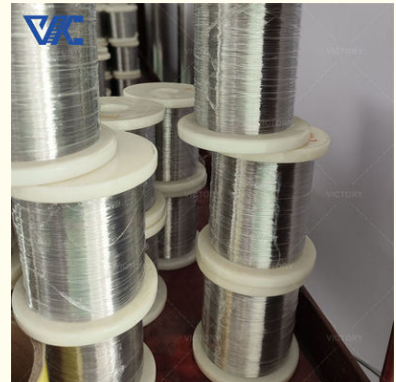
### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 625 600 601 718 X-750
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel 625 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

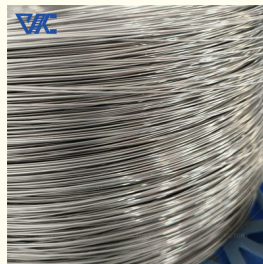


### Product Specification

- Product Name: Inconel 625 Wire
- Material: Ni Cr Fe
- Nickel(Min): 58%
- Application: Chemical Processing Industry
- Density: 8.44 G/cm3
- Thermal Expansion Coefficient:  $12.8 \times 10^{-6} (^{\circ}\text{C})$
- Thermal Conductivity: 13.3 W/(m-K)
- Melting Point: 1290-1350°C
- Sureface: Bright,Oxided
- Modulus Of Elasticity: 205 GPa
- Yield Strength: 275 MPa
- Tensile Strength: 620 MPa
- Elongation: 45%
- Highlight: **nickel based alloy inconel 625 wire,**



### More Images



### Product Description

## Introduction:

Inconel 625 wire is a corrosion-resistant nickel-based alloy known for its high strength and excellent fabricability. It is commonly used in a wide range of applications, including marine and chemical processing, due to its outstanding resistance to a variety of corrosive environments. Inconel 625 wire offers exceptional strength at elevated temperatures and retains its mechanical properties in both high-temperature and cryogenic conditions.

This alloy is often used in wire form for applications such as springs, seals, and electrical resistance heating wires. Its combination of high strength, excellent corrosion resistance, and fabricability makes it a popular choice for demanding environments where reliability is crucial.

## Specifications:

Chemical Composition:

Nickel (Ni): Approximately 58%  
Chromium (Cr): Around 20-23%  
Molybdenum (Mo): Around 8-10%  
Niobium (Nb): Around 3.15-4.15%  
Iron (Fe): Around 5%  
Small amounts of other elements such as titanium and aluminum

Physical Properties:

Density: 8.44 g/cm<sup>3</sup>  
Melting Point: 1290-1350°C (2350-2460°F)  
Mechanical Properties:

Tensile Strength: 760 MPa (110 ksi) minimum  
Yield Strength: 345 MPa (50 ksi) minimum  
Elongation: 30% minimum  
Standards:

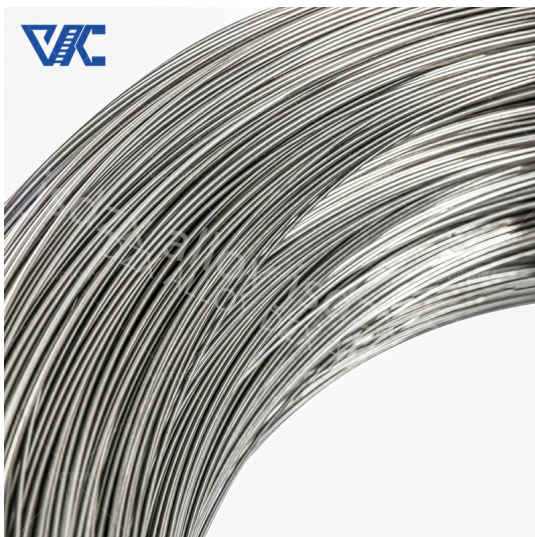
ASTM B446 (Rod, Bar, and Wire)  
ASTM B443 (Plate, Sheet, and Strip)  
AMS 5599 (Rod, Bar, and Wire)  
AMS 5596 (Plate, Sheet, and Strip)  
Typical Applications:

Chemical processing equipment  
Aerospace components  
Marine applications  
Heat exchangers  
Springs and seals

## Parameter:

Item	C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo	B
Inconel 625	≤0.08	≤0.35	rest	--	≤0.015	≤0.35	≤0.3	50-55	≤10	≤0.8	≤1.15	17-21	4.75-5.5	2.8-3.3	--

AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 5581	Inconel 625	Nickel	N06625		
AMS 5581 Custom Tube	Inconel 625	Nickel	N06625	-	Custom Tube
AMS 5581 Tubing	Inconel 625	Nickel	N06625	-	Tubing
AMS 5599	Inconel 625	Nickel	N06625		
AMS 5599 Plate	Inconel 625	Nickel	N06625	-	Plate
AMS 5599 Sheet	Inconel 625	Nickel	N06625	-	Sheet
AMS 5599 Strip	Inconel 625	Nickel	N06625	-	Strip
AMS 5666	Inconel 625	Nickel	N06625		
AMS 5666 Bar	Inconel 625	Nickel	N06625	-	Bar
AMS 5666 Custom Tube	Inconel 625	Nickel	N06625	-	Custom Tube
AMS 5666 Forging	Inconel 625	Nickel	N06625	-	Forging
AMS 5666 Ring	Inconel 625	Nickel	N06625	-	Ring
AMS 5869	Inconel 625	Nickel	N06625		
AMS 5869 Plate	Inconel 625	Nickel	N06625	-	Plate
AMS 5869 Sheet	Inconel 625	Nickel	N06625	-	Sheet
AMS 5869 Strip	Inconel 625	Nickel	N06625	-	Strip



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

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

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

#### Feature:

**Corrosion Resistance:** Inconel 625 alloy wire performs well in acidic and alkaline environments and resists corrosion and stress corrosion cracking, making it suitable for corrosive media in the chemical processing industry.

**High-temperature strength:** The alloy wire maintains high strength and rigidity in high-temperature environments and can withstand the high-temperature requirements during chemical treatment.

**Oxidation resistance:** Inconel 625 alloy wire can resist oxidation and hot corrosion, and is suitable for long-term use in high temperature environments.

**Good machinability:** The alloy has good machinability, making it easy to manufacture parts and components of various shapes and sizes.

#### Advantages:

**Outstanding corrosion resistance:** Inconel 625 alloy wire has excellent corrosion resistance in the chemical processing industry and can maintain good stability in corrosive media such as acid, alkaline and chloride.

**Strong resistance to stress corrosion cracking:** This alloy wire has high resistance to stress corrosion cracking and is suitable for high stress environments that may exist during chemical processing.

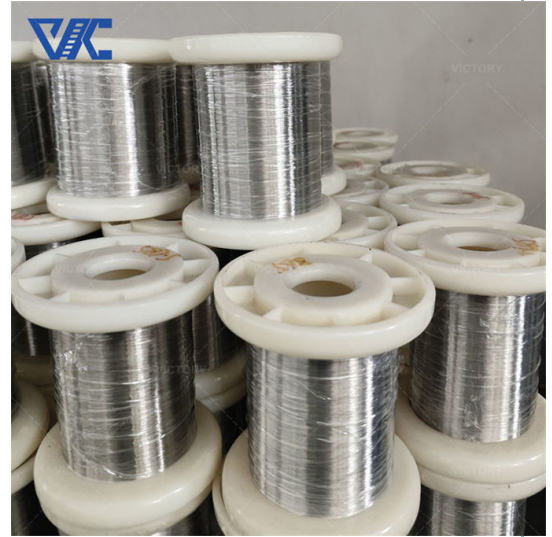
**Excellent high-temperature performance:** Inconel 625 alloy wire has excellent stability and high-temperature strength in high-temperature environments, and is suitable for high-temperature applications in the chemical processing industry.

**Good weldability:** This alloy wire has good weldability, making it easy to connect with other materials and manufacture complex components.

#### Specific applications :

Inconel 625 is utilized in a wide range of applications due to its exceptional corrosion resistance, high strength, and versatility. Some common applications include:

- 1. Chemical Processing:** Inconel 625 is used in chemical processing equipment such as reactors, vessels, and piping systems due to its resistance to a variety of corrosive substances, including acids and chlorides.
- 2. Aerospace and Marine Components:** The alloy is employed in aerospace and marine applications, including aircraft ducting systems, engine exhaust systems, and seawater components, where its corrosion resistance and high strength are valuable.
- 3. Oil and Gas Industry:** Inconel 625 finds use in components exposed to sour gas environments, such as downhole equipment and wellhead components, where resistance to hydrogen sulfide and chloride stress corrosion cracking is essential.
- 4. Heat Exchangers:** The alloy is utilized in heat exchangers for its resistance to pitting and crevice corrosion, making it suitable for applications involving seawater and brackish water.
- 5. Springs and Seals:** Inconel 625 wire is often employed in the manufacturing of springs, seals, and electrical resistance heating wires due to its high strength and fabricability.



#### Q & A:

Q1: What makes Inconel 625 wire suitable for corrosive environments?

A1: Inconel 625 wire exhibits exceptional corrosion resistance, allowing it to withstand acids, alkalis, and seawater, making it a reliable choice for applications in aggressive chemical environments.

Q2: What are the key advantages of using Inconel 625 wire?

A2: Inconel 625 wire offers a combination of high strength, excellent fatigue resistance, and weldability, making it an ideal material for components subjected to extreme conditions and cyclic loading, such as in aerospace, chemical processing, and marine industries.



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