



## Oil And Gas Industry AMS 5837 Nickel Inconel 625 Wire With High-Strength

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
- 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: Oil And Gas 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: corrosion resistant inconel alloy, . . . . .



### More Images



### Product Description

**Introduction:**

Inconel 625 alloy wire is a high-strength, corrosion-resistant alloy material widely used in the oil and gas industry. The alloy is composed of elements such as nickel, chromium and molybdenum and has excellent corrosion resistance and high temperature stability. It can maintain good mechanical properties and durability in harsh working environments.

In the oil and gas industry, Inconel 625 alloy wire is commonly used to manufacture a variety of critical equipment and components. It is widely used in lower equipment in oil well and natural gas production, such as casing, tubing and wellbore liner. Due to its excellent corrosion resistance, Inconel 625 alloy wire can resist the erosion of acidic, alkaline and high-temperature corrosive media, extending the service life of equipment and improving system reliability.

In addition, Inconel 625 alloy wire is often used to manufacture key components in oil and gas processing facilities, such as furnace tubes, reactors and heat exchangers. These equipment need to withstand high temperatures, pressures and corrosive media, and the corrosion resistance and high temperature stability of Inconel 625 alloy wire make it an ideal material choice.

In the oil and gas industry, Inconel 625 alloy wire is also widely used to manufacture key components such as valves, pipe connections and pump bodies. These components need to resist corrosion from corrosive media and maintain good sealing properties. The outstanding performance of Inconel 625 alloy wire ensures the reliability and safety of these components under harsh working conditions.

Inconel series: 600,601,617,625,690,718,X-750,825

Wire: 0.01-10mm

Strip: 0.05\*5.0-5.0\*250mm

Bar:  $\phi$ 4-50mm;Length 2000-5000mm

Pipe:  $\phi$ 6-273mm; $\delta$ 1-30mm;Length 1000-8000mm

Sheet:  $\delta$  0.8-36mm;Width 650-2000mm;Length 800-4500mm

**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

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**Feature:**

**Corrosion resistance:** This alloy performs well in corrosive media such as acid, alkaline and chloride, has excellent corrosion resistance, and can effectively resist corrosion and stress corrosion cracking.

**High-temperature strength:** This alloy has excellent high-temperature strength and heat resistance, and can maintain high strength and stiffness in high-temperature environments.

**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 and can be shaped and processed by various processing methods.

**Advantages:**

**Outstanding corrosion resistance:** The alloy has excellent corrosion resistance in acidic and alkaline environments, seawater, brine and chloride media, so it is widely used in corrosive environments in the oil and gas industry.

**Strong resistance to stress corrosion cracking:** Inconel 625 alloy wire has high resistance to stress corrosion cracking and is suitable for applications in high stress environments.

**Excellent high-temperature performance:** This alloy has excellent stability and high-temperature strength in high-temperature environments, and is suitable for high-temperature applications in the oil and gas industry, such as refining, chemical equipment, heat exchangers, etc.

**Good weldability:** Inconel 625 alloy wire has good weldability and can be connected to other materials through conventional welding methods.

**Specific applications:**

Inconel 625 alloy wire has a wide range of applications in the oil and gas industry, including but not limited to the following:

**Petrochemical equipment:** used to manufacture reactors, furnace tubes, catalyst tubes and rotors in corrosion-resistant and high-temperature stress environments.

**Marine engineering:** used to manufacture seawater treatment equipment, oil well pipelines and valves on offshore oil platforms,

etc.

Gas turbine engine: used to manufacture hot-end components in gas turbine engines, such as combustors and turbine blades.  
Nuclear industry: used in nuclear fuel elements, nuclear fuel cycle equipment and nuclear waste treatment equipment in nuclear reactors.

Inconel 625 alloy wire has become one of the important materials in the oil and gas industry due to its excellent corrosion resistance, high temperature strength and processability.

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**Q & A:**

Q1: What are the typical applications of Inconel 625 wire?

A1: Inconel 625 wire is commonly used in aerospace, chemical processing, marine, and oil and gas industries for applications such as springs, seals, fasteners, and wire mesh.

Q2: What are the key features of Inconel 625 wire?

A2: Inconel 625 wire exhibits exceptional strength, excellent corrosion resistance, and superb fabricability, making it well-suited for demanding environments and critical components requiring resistance to high temperatures and corrosive environments



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