



Chemical Processing Industry Nickel Alloy UNS N06625 Inconel 625 Wire

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: 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: corrosion resistant inconel alloy,



More Images



Product Description

Introduction:

Inconel 625 alloy wire is a high-performance alloy material widely used in the chemical processing industry. The alloy is composed of elements such as nickel, chromium and molybdenum and has excellent corrosion resistance and high temperature stability. It maintains excellent mechanical properties and corrosion resistance in harsh chemical environments. In the chemical processing industry, Inconel 625 alloy wire is widely used in the manufacture of various key equipment and components. It is often used to manufacture equipment such as storage tanks, reactors and heat exchangers, which need to withstand the erosion of strong acids, strong alkali and corrosive media. The corrosion resistance of Inconel 625 alloy wire enables it to effectively resist erosion by corrosive media and maintain structural integrity under high temperature and pressure conditions.

In addition, Inconel 625 alloy wire is also commonly used in the manufacture of key components such as pipes, valves and pump bodies in the chemical processing industry. These components need to resist corrosion from corrosive media and maintain good sealing performance and fluid control capabilities. The excellent properties of Inconel 625 alloy wire ensure the reliability and safety of these components during chemical processing.

In the chemical processing industry, Inconel 625 alloy wire can also be used to manufacture key equipment such as distillation towers, absorption towers and extractors. These devices need to operate in high temperature, corrosive and pressure environments and have a long service life. The corrosion resistance and high temperature stability of Inconel 625 alloy wire make it an ideal material choice for these devices.

Specifications:

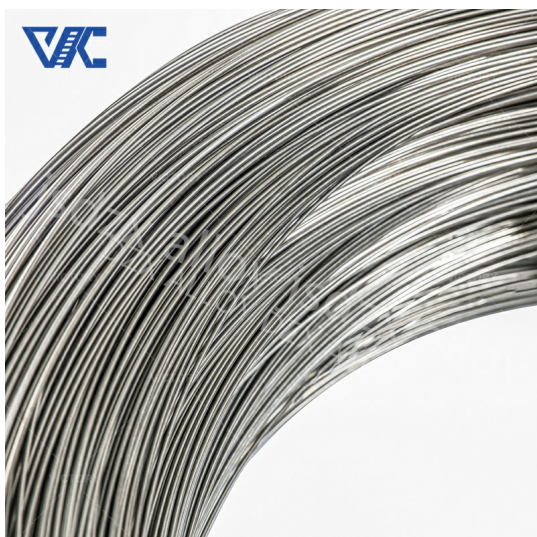
1. Inconel 625 wire is available in various sizes and diameters, typically ranging from 0.025 mm (0.001 inches) to 6.35 mm (0.250 inches) or more, depending on the specific requirements.

2. Inconel 625 wire is available in different forms, such as round wire, flat wire, square wire, and shaped wire, to suit different application needs.

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

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 alloy wire has a wide range of applications in the chemical processing industry, including but not limited to the following:

Acid and alkali containers: containers, reactors, storage tanks and pipelines used to manufacture acid and alkali resistant media.

Equipment in corrosive environments: used to manufacture equipment such as heat exchangers, distillation towers and reactors that require high corrosion resistance.

Corrosive medium transmission pipeline: pipeline system used to transport acidic, alkaline or chlorine-containing media.

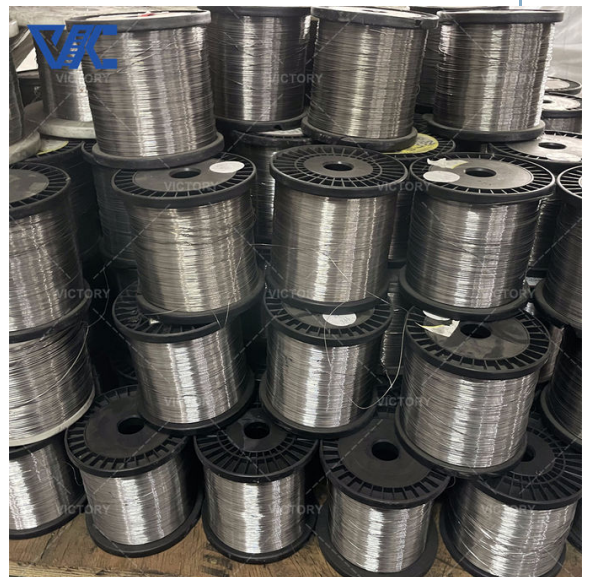
Petrochemical equipment: including refining units, cracking units, catalytic units, hydrogenation units, etc.

Seawater treatment equipment: such as seawater desalination devices, seawater evaporators, seawater coolers, etc.

Chemical processing equipment: used to manufacture chemical reactors, extraction towers, adsorbent beds, etc.

High temperature stoves and heating elements: Heating elements suitable for high temperature heating, calcining and melting processes.

It should be noted that in specific applications, appropriate Inconel 625 alloy wire specifications and processing methods should be selected based on specific process requirements and environmental conditions to ensure its performance and reliability. At the same time, we follow relevant standards and specifications for design, manufacturing and installation.



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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