



Heat Treatment Equipment Nickel Alloy Wire Inconel 601 Wire With Antioxidant

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 wire
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel 601 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

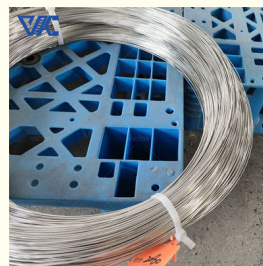
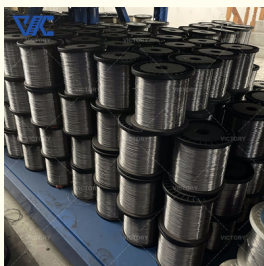


Product Specification

- Product Name: Inconel 601 Wire
- Material: Ni Cr Fe
- Nickel(Min): 58%
- Density: 8.11 G/cm3
- Melting Point: 1,370-1,415°C
- Tensile Strength: 550 MPa
- Yield Strength: 220 MPa
- Thermal Expansion Coefficient: $13.1 \times 10^{-6}/^{\circ}\text{C}$
- Thermal Conductivity: 9.9 W/(m·K)
- Application: Heat Treatment Equipment
- Sureface: Bright,Oxided
- Highlight: corrosion resistant inconel alloy, high temperature resistant inconel alloy



More Images



Product Description

Introduction:

Inconel 601 alloy wire is a nickel-chromium alloy that contains a high proportion of nickel and chromium, as well as added elements such as aluminum and titanium. These elements give Inconel 601 alloy wire excellent high temperature corrosion resistance and heat resistance. It is usually supplied in wire form and can be used to manufacture critical components in heat treatment equipment.

In heat treatment equipment, Inconel 601 alloy wire is often used to manufacture key components such as furnaces, furnace tubes, heating elements and protective sleeves. It can maintain stable mechanical properties and anti-oxidation properties in high temperature environments, and can resist corrosion and oxidation at high temperatures.

Characteristic:

High temperature resistance: Inconel 601 alloy wire has excellent high temperature resistance and can operate stably for a long time in high temperature environments. It is able to withstand stress and thermal cycling at high temperatures and maintain good mechanical properties.

Corrosion resistance: Inconel 601 alloy wire has good corrosion resistance to a variety of corrosive media. It can resist corrosion from corrosive media such as high-temperature oxidizing atmosphere, sulfuric acid, nitric acid, alkali solutions and molten salts, thereby extending the service life of the equipment.

Oxidation resistance: Inconel 601 alloy wire forms a dense oxide film at high temperatures, which can provide effective anti-oxidation protection. This oxide film can prevent oxidation and corrosion of materials and maintain the stability and performance of the alloy wire.

Advantage:

High temperature corrosion resistance: Inconel 601 alloy wire is an alloy material specially designed for high temperature environments and has excellent high temperature corrosion resistance. It can maintain stable performance at high temperatures and is not susceptible to oxidation, corrosion and high temperature atmosphere erosion.

Good mechanical properties: Inconel 601 alloy wire has good high-temperature strength and resistance to stress corrosion cracking, and can withstand stress and thermal cycles at high temperatures. It also has good plasticity and processability, making it easy to manufacture and process into various shapes and sizes.

Corrosion resistance to a variety of corrosive media: Inconel 601 alloy wire has good corrosion resistance to a variety of corrosive media, including high-temperature oxidizing atmospheres, sulfuric acid, nitric acid, alkali solutions and molten salts. This makes it an ideal material for heat treatment equipment handling corrosive gases or liquids.

Specific applications:

Furnace and furnace tubes: Inconel 601 alloy wire is often used to manufacture furnace hearths and furnace tubes for high-temperature heat treatment equipment. It can withstand the requirements of high-temperature environments and thermal cycles, maintaining structural stability and performance.

Heating elements: Inconel 601 alloy wire can be used to make heating elements, such as resistance wires and electric heating plates. These heating elements provide high-temperature heating and are suitable for a variety of heat treatment processes.

Protective casing: Inconel 601 alloy wire can be used as protective casing in heat treatment equipment. It protects internal components from corrosion and high temperature erosion, improving the reliability and life of the equipment.

In summary, Inconel 601 alloy wire has excellent high temperature corrosion resistance, heat resistance and corrosion resistance in heat treatment equipment. It can withstand stress and thermal cycles in high temperature environments and has good corrosion resistance to a variety of corrosive media. Therefore, it is widely used in the manufacture of heat treatment equipment such as furnaces, furnace tubes, heating elements and protective sleeves.

Parameter:

Chemical composition:

Nickel (Ni): about 61%

Chromium (Cr): about 23%

Aluminum (Al): about 1.4%

Titanium (Ti): about 0.1%

Density: approximately 8.11 g/cm³

Melting point: approximately 1,370-1,415°C

Tensile strength: At room temperature, the tensile strength of Inconel 601 alloy wire is typically 550 MPa (Megapascals).

Yield strength: At room temperature, the yield strength of Inconel 601 alloy wire is typically 220 MPa.

Thermal expansion coefficient: In the range of degrees Celsius, the linear expansion coefficient of Inconel 601 alloy wire is approximately $13.1 \times 10^{-6}/^{\circ}\text{C}$.

Thermal conductivity: The thermal conductivity of Inconel 601 alloy wire is approximately 9.9 W/(m·K) in the Celsius range.

Magnetic properties: Inconel 601 alloy wire is non-magnetic.

Item	C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo	B
Inconel 601	≤0.1	≤1.5	rest	≤0.02	≤0.015	≤0.5	≤1	58-63	--	1-1.7	--	21-25	--	--	--

AMS Number	Alloy	Type	UNS	Cross Ref. Spec	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 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



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



Q & A:

Q1: What are the typical applications of Inconel 601 wire?

A1: Inconel 601 wire is commonly used in aerospace, chemical processing, and high-temperature applications.

Q2: What are the advantages of using Inconel 601 wire compared to other alloys?

A2: Inconel 601 wire offers excellent heat and corrosion resistance, making it a preferred choice in demanding environments.



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