



Food Processing Field Inconel 600 Strip Special Metals With Heat Resistance

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 600
- Minimum Order Quantity: 1 Kg
- Price: Negotiable
- Packaging Details: Packed as coil. Special packaging requirements can also be accommodated. OEM is also acceptable
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 100 Ton/Tons per Month



Product Specification

- Product Name: Inconel 600 Strip
- Material: Ni Cr Fe
- Ni (Min): 72%
- Density (g/cm³): 8.47 G/cm³
- Melting Point: 1,370-1,410°C
- Elongation (≥ %): 30 %
- Thermal Conductivity: 15.9 W/m·K
- Surface: Bright,Oxidized
- Application: Joint Implants, Surgical Tools
- Yield Strength: 240 MPa
- Tensile Strength: 550 MPa
- Hardness: ≤ 160 HB
- Highlight: Nickel Inconel Alloy Strip, Inconel Alloy Strip



More Images



Product Description

Introduction:

Inconel 600 belt is a high-performance alloy material mainly composed of nickel, chromium and iron. It has excellent properties and is suitable for a variety of applications in the medical field.

This product has excellent corrosion resistance and can resist the erosion of acidic, alkaline and salt corrosive media. Its high density and compact structure provide stable and reliable performance.

Inconel 600 tape has a melting point range of 1,370-1,410 degrees Celsius and has good high temperature resistance. It can maintain mechanical properties and structural integrity in high-temperature environments and is suitable for medical device cleaning processes such as high-temperature sterilization.

The product has an elongation rate of more than 30% and good plasticity, making it easy to manufacture medical devices with complex shapes. At the same time, its thermal conductivity is 15.9 Watt/meter-Kelvin, which can effectively conduct heat and ensure temperature control of the device during use.

The surface treatment of Inconel 600 tape can be divided into two types: bright surface and oxidation treatment, providing different appearance and surface properties.

In the medical field, Inconel 600 belts are mainly used in joint implants and surgical tools. Its yield strength is 240 MPa, tensile strength is 550 MPa, and hardness does not exceed 160 HB, which can meet the mechanical requirements and service life of medical devices.

In summary, Inconel 600 tape, as a high-quality material, has corrosion resistance, high temperature stability and good mechanical properties, and is suitable for manufacturing medical devices with high quality, reliability and safety.

Characteristic:

Corrosion resistance: Inconel 600 tape has good resistance to many acidic media and corrosive gases, which allows it to withstand various chemical environments in medical devices.

High temperature strength: This strip has excellent high temperature strength and heat resistance, and can maintain high strength and stability in high temperature environments.

Biocompatibility: Inconel 600 tape is biocompatible to a certain extent, but in the medical device field, additional surface treatments or coatings are often required to improve biocompatibility.

Advantage:

Corrosion Resistance: Inconel 600 tape has good resistance to corrosive substances in body fluids and tissues, which gives it an advantage in medical device manufacturing involving corrosive environments.

High Temperature Strength: Inconel 600 tape is able to maintain stability and strength in high temperature environments, making it suitable for medical device applications that require high temperature resistance.

Application:

Implants: Due to the corrosion resistance and high temperature strength of Inconel 600 tape, it can be used to make some implants, such as bone implants, joint implants, etc. However, in implant applications, the material's biocompatibility and interaction with human tissue need to be considered.

Medical equipment: Inconel 600 tape can be used to manufacture some components of medical equipment, such as surgical tools, electronic device casings, etc.

Other relevant knowledge points:

In the field of medical devices, material selection often needs to meet strict biocompatibility requirements to ensure safety and acceptability to human tissues and body fluids.

When using Inconel 600 tape to manufacture medical devices, additional surface treatments or coatings may be required to improve biocompatibility and interaction with human tissue.

The design and manufacture of medical devices need to comply with relevant regulations and standards to ensure their safety and effectiveness.

It should be noted that material selection for medical devices is a complex process that requires comprehensive consideration of multiple factors, such as biocompatibility, corrosion resistance, mechanical properties, etc., to ensure the suitability of the material and the reliability of the medical device.

Parameter:

Chemical Properties of Inconel 600

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

Type we could offer

AMS Number	Alloy	Misc./Shape
AMS 5540	Inconel 600	
AMS 5540 Plate	Inconel 600	Plate
AMS 5540 Sheet	Inconel 600	Sheet

AMS Number	Alloy	Misc./Shape
AMS 5540 Strip	Inconel 600	Strip
AMS 5580 Custom Tube	Inconel 600	Custom Tube
AMS 5580 Tubing	Inconel 600	Tubing
AMS 5665 Bar	Inconel 600	Bar
AMS 5665 Custom Tube	Inconel 600	Custom Tube
AMS 5665 Ring	Inconel 600	Ring
AMS 5961	Inconel 600	Wire

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



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