



Nickel Chromium Iron Alloy UNS N06600 ASTM B168 0.05mm Thickness Inconel 600 Strip Sheet

Our Product Introduction

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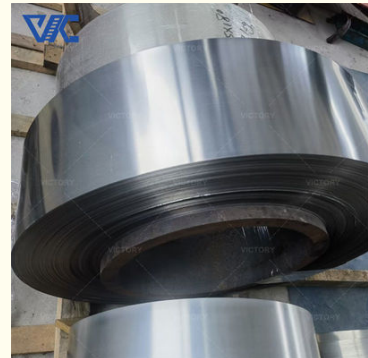
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO9001 ROHS
- Model Number: Inconel 600
- Minimum Order Quantity: 30 Kg
- Price: Negotiable
- Packaging Details: Inconel 600 rod packed in Spool Carton box, Coil package with polybag, then in woodencase
- Delivery Time: 20~40 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



Product Specification

- Name: Nickel-chromium-iron Alloy UNS N06600 ASTM B168 0.05mm Thickness Inconel 600 Strip Sheet
- Material: Nickel Chromium Iron
- Ni (Min): 72%
- Density: 8.47 G/cm³
- Melting Point: 1,370-1,425°C
- Elongation (≥ %): 30 %
- Thermal Conductivity: 15.9 W/m·K
- Finishing: Bright, Oxided
- Application: Construction, Industry Oil, Piping Systems
- Yield Strength: 240 MPa
- Tensile Strength: 550 MPa
- Hardness: ≤ 160 HB
- Standard: ASTM, ASME



More Images



Product Description

Inconel 600 alloy material performance?

Inconel 600 is a nickel-based alloy with the following characteristics:

Excellent corrosion resistance, able to resist corrosion in a variety of highly corrosive environments.

Superb oxidation resistance at high temperatures, able to be used for long periods at temperatures above 800°C.

Relatively high strength and hardness, allowing use under high stress conditions.

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Good weldability, making it convenient for fabrication through welding.

How does the maximum operating temperature of Inconel 600 compare to other high-temperature alloys?

Inconel 600 has an excellent high-temperature performance compared to many other high-temperature alloys. Here's a comparison of the maximum operating temperatures:

Inconel 600:

Maximum long-term operating temperature: Around 1100°C (2012°F)
Maximum short-term operating temperature: Around 1200°C (2192°F)

Other high-temperature alloys:

Stainless Steel 304: Maximum around 800-900°C (1472-1652°F)
Stainless Steel 310: Maximum around 1100°C (2012°F)

Hastelloy C-276: Maximum around 1100°C (2012°F)

Haynes 230: Maximum around 1150°C (2102°F)

Inconel 718: Maximum around 650-800°C (1202-1472°F)

Compared to the other alloys listed, Inconel 600 has one of the highest maximum operating temperatures, making it well-suited for the most demanding high-temperature applications.

What are the typical operating temperature ranges for Inconel 600 components?

Cryogenic temperatures down to around -250°C (-418°F)

Up to around 1100°C (2012°F) for long-term use

Up to around 1200°C (2192°F) for short-term use

The excellent high-temperature strength and oxidation resistance of Inconel 600 allows it to be used in a wide range of high-temperature applications, such as:

Components in nuclear reactors

Furnace parts

Combustion equipment

Aerospace applications

Chemical processing equipment

what's the main application of Inconel 600 strip?

Inconel 600 strips are mainly used in the following areas:

Chemical equipment manufacturing

Power equipment manufacturing

Aerospace industry

Nuclear power equipment manufacturing

Medical device manufacturing

Parameter:

Chemical Properties of Inconel 600

C	Cr	Ni+Co	Al	Ti	Fe	Nb+Ta	Mn	Si	P	S
≤0.15	14.0 17.0	≥72	≤0.35	≤0.50	6.0 10.0	≤1.0	≤1.0	≤0.5	≤0.04	≤0.015

ITEM	θ/°C	TENSILE STRENGTH				HBS
		σb/MPa	σP0.2/MPa	δ5/%	φ/%	
BAR/ROD	20	≥585	≥240	≥30	-	134 217
RING	20	≥520	≥205	≥35	-	≥187
HOT ROLL PLATE	20	≥550	≥240	≥35	≥40	-
	900	≥95	≥45	≥40	≥50	-
COLD ROLLED SHEET	20	≥550	≥240	≥30	-	-
	900	≥90	≥40	≥60	-	-
COLD ROLLED SHEET	20	≥550	≥200	≥30	-	-
	20	≥550	≥240	≥30	-	-
STRIP	20	≥550	≥240	≥30	-	-
WIRE	20				-	HV≤151

Shape	Size(mm)
Wire	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made

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Oem service:
Welcome customized size
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