



UNS N06600 Round Rod Nickel Chromium Alloy 600 Inconel 600 Bar Manufacturer

Our Product Introduction

for more products please visit us on victory-alloy.com

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

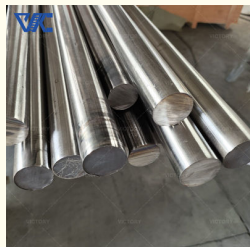


Product Specification

- Name: UNS N06600 Round Rod Nickel-chromium Alloy 600 Inconel 600 Bar Manufacturer
- 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
- Size: 6~500mm



More Images



Product Description

Introduction:

Excellent corrosion resistance: Inconel 600 has excellent acid resistance, alkali resistance, stress corrosion resistance and other properties, and performs well in a variety of corrosive environments.

Excellent high temperature performance: Inconel 600 can maintain good mechanical properties and oxidation resistance in the temperature range of 600-1100°C. Suitable for high temperature environments.

Our P

High strength and hardness: Inconel 600 has high strength and hardness, which can meet the requirements of occasions that need to withstand large stress and wear.

Good thermal fatigue resistance: The thermal expansion coefficient of Inconel 600 material is similar to that of steel, and its thermal fatigue resistance is excellent.

Better machinability: Through reasonable process control, Inconel 600 round bars can obtain better machined surface quality.

Good welding performance: Inconel 600 is able to make good connections through the welding process.

why inconel 600 has highly resistant to corrosion?

Alloy composition: Inconel 600 is a nickel-based alloy containing approximately 72% nickel, 14-17% chromium and 6-10% iron. Nickel and chromium give it excellent corrosion resistance.

Corrosion-resistant protective film: When exposed to an environment, a dense and stable oxide film will form on the surface of Inconel 600. This protective film can effectively prevent the corrosive solution from contacting the substrate, thereby improving corrosion resistance.

Chemical inertness: The main components of Inconel 600, nickel and chromium, are relatively inert metals and are not prone to corrosion reactions. This gives Inconel 600 excellent corrosion resistance in most corrosive environments.

High-temperature oxidation resistance: Inconel 600 can maintain good oxidation resistance in high-temperature environments, which makes it widely used in many high-temperature applications, such as chemical equipment, gas turbines, etc.

How to choose Inconel material?

There are several factors to consider when choosing to use Inconel alloy materials:

Working environment: Determine the corrosive environment in which Inconel materials will be used, such as acid, alkali, salt, high temperature, etc. The applicability of Inconel will vary in different environments.

Mechanical performance requirements: Inconel has high strength and hardness and is suitable for applications with high stress and wear. It is necessary to have clear requirements for specific mechanical performance indicators.

Temperature operating range: Inconel materials perform well in high temperature environments and can be used in the range of 600-1100°C. If the operating temperature exceeds this range, other alloys need to be considered.

Cost budget: The cost of Inconel is higher than that of ordinary stainless steel. It needs to be evaluated whether the cost meets the budget requirements.

Manufacturing process: Inconel materials are difficult to process, and the feasibility and cost of the manufacturing process need to be considered.

Application scenarios: Inconel is widely used in chemical equipment, aerospace, power generation equipment and other fields, and needs to be evaluated based on specific usage scenarios.

what's the standard of inconel 600 round bar?

ASTM B166 - Standard specification: ASTM B166 is the standard specification for Inconel 600 alloy round rods established by the American Society for Testing and Materials (ASTM). It covers the chemical composition, mechanical properties, dimensional tolerance and other technical requirements of Inconel 600 alloy round rods.

EN 10095 - European Standard: EN 10095 is a standard for heat-resistant alloys and heat-resistant steels developed by the European Standards Organization. It contains specifications for Inconel 600 alloy round bars.

JIS H 4751 - Japanese Standard: JIS H 4751 is the Japanese Industrial Standard for Inconel 600 alloy round bars. Including its chemical composition, mechanical properties, dimensional tolerance and other indicators.

GB/T 1220 - Chinese Standard: GB/T 1220 is the relevant provisions of the Chinese national standard for Inconel 600 alloy round bars, covering its chemical composition, mechanical properties, surface quality and other technical requirements.

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	-	-
STRIP	20	≥550	≥240	≥30	-	-
WIRE	20				-	HV≤151

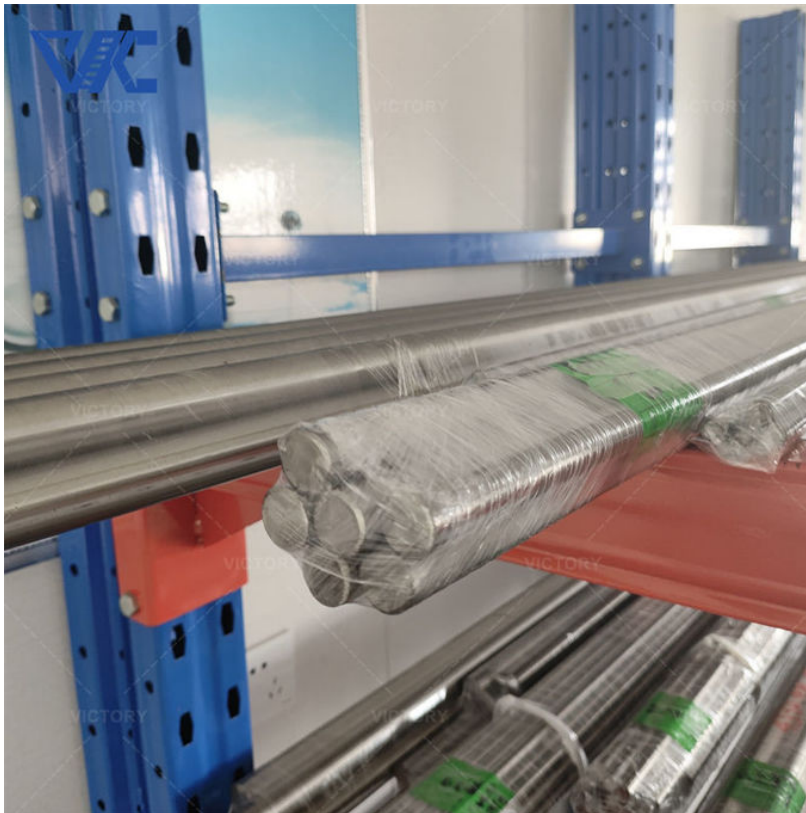
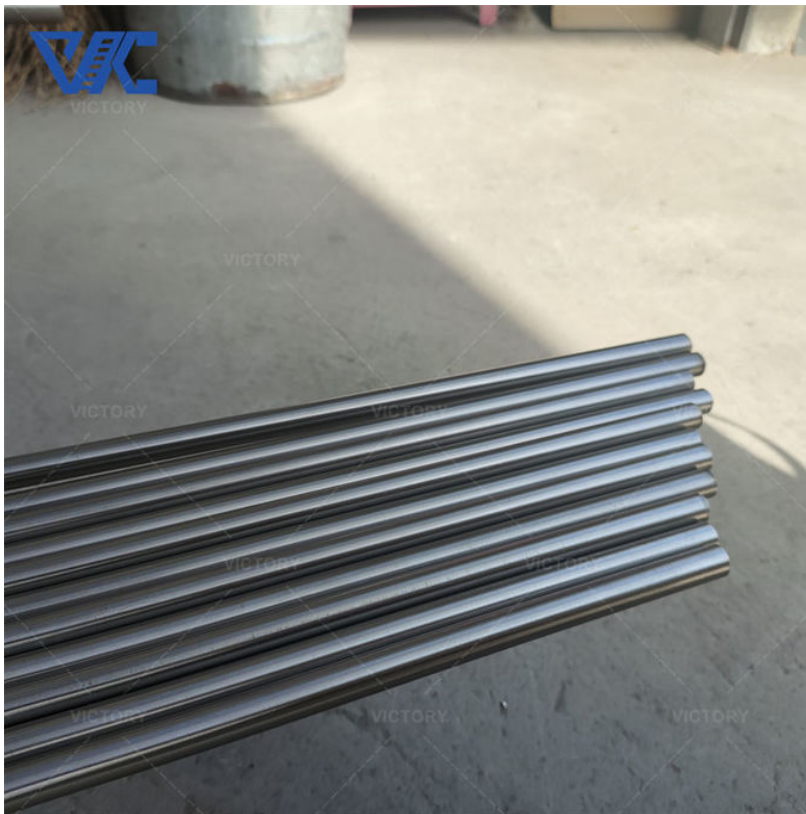
Shape	Size(mm)
Wire	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made

contact us
email:victory@dlx-alloy.com

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service





Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu