



Oil And Gas Industry Alloy Rod Inconel 600 Rods With Antioxidant

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO9001
- Model Number: Inconel 600
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel 600 rod packed in Spool Carton box, Coil package with polybag, then in woodencase
- Delivery Time: 7-20 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

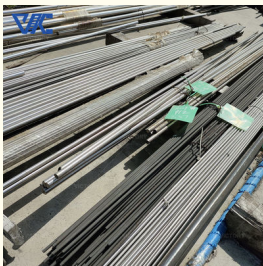


Product Specification

- Name: Inconel 600 Bar
- Material: Nickel Chromium Iron
- Ni (Min): 72%
- Density: 8.47 G/cm3
- Melting Point: 1,370-1,410°C
- Elongation (≥ %): 30 %
- Thermal Conductivity: 15.9 W/m-K
- Sureface: Bright, Oxided
- Application: Construction, Industry Oil Drilling Tools, Piping Systems, Storage Tanks And Reactors
- Yield Strength: 240 MPa
- Tensile Strength: 550 MPa
- Hardness: ≤ 160 HB
- Highlight: corrosion resistant inconel alloy, high temperature resistant inconel alloy



More Images



Product Description

Introduction:

Inconel 600 Bar, a nickel-chromium-iron alloy, possesses remarkable properties that make it a valuable material in various industries, including the oil and gas sector. With a minimum nickel content of 72% and a density of 8.47 g/cm³, it exhibits excellent corrosion resistance and high-temperature stability. The melting point of Inconel 600 Bar ranges from 1,370 to 1,410°C.

In terms of mechanical properties, it offers a yield strength of 240 MPa, a tensile strength of 550 MPa, and an elongation of at least 30%. The hardness, measured in terms of Brinell hardness, is ≤ 160 HB. Furthermore, it has a thermal conductivity of 15.9 W/m-K, facilitating efficient heat transfer.

Inconel 600 Bar finds significant application in the oil and gas industry, particularly in the construction and drilling sectors. It is extensively used in the manufacturing of oil drilling tools, such as drill bits, for its corrosion resistance and mechanical strength, ensuring reliable performance in demanding drilling environments. Additionally, it is employed in piping systems, storage tanks, and reactors, where its corrosion resistance is crucial for withstanding corrosive fluids and harsh operating conditions. In summary, Inconel 600 Bar, with its excellent corrosion resistance, high-temperature stability, and mechanical properties, plays a vital role in the oil and gas industry. Its applications encompass oil drilling tools, piping systems, storage tanks, and reactors, contributing to the safe and efficient operation of various components and equipment in this sector.

Characteristic:

Corrosion resistance: Inconel 600 rod has good corrosion resistance and can withstand corrosive media in the oil and gas industry, including acidic and alkaline media, salt water and hydrogen sulfide.

High-temperature stability: The alloy has excellent high-temperature stability and is able to maintain strength and structural stability in high-temperature environments, making it suitable for high-temperature applications in the oil and gas industry.

Mechanical properties: Inconel 600 rod has good mechanical properties, including high strength, good toughness and plasticity, and is able to meet the structural requirements in the oil and gas industry.

Advantage:

Corrosion Resistance: One of the main advantages of Inconel 600 rod in the oil and gas industry is its excellent corrosion resistance. It can withstand the erosion of corrosive media, reduce corrosion losses of pipelines and equipment, and extend service life.

Oxidation resistance: This alloy has good oxidation resistance and shows good stability in high temperature and oxidizing environments, which can reduce the impact of oxidation on pipelines and equipment.

High Temperature Performance: Inconel 600 rod maintains strength and structural stability under high temperature conditions and is suitable for high temperature equipment and pipelines in the oil and gas industry.

Application:

Oil Drilling Tools: Inconel 600 rods can be used to make oil drilling tools such as drill pipes and drill bits. Its corrosion resistance and high strength can meet the requirements of drilling environment.

Oil and gas pipelines: Inconel 600 bar can be used to manufacture pipeline systems for transporting oil and gas. Its corrosion resistance and high temperature stability can cope with the challenges of corrosive media and high temperature environments.

Tanks and Reactors: Alloy rods are used in the manufacture of tanks and reactors in the oil and gas industry. Its corrosion resistance and high temperature stability protect media and equipment during storage and handling.

Other relevant knowledge points:

Inconel 600 rods also have applications outside the oil and gas industry, such as aerospace, chemical and other fields.

In the oil and gas industry, Inconel 600 rod is often required to comply with relevant material specifications and standards to ensure its quality and suitability.

When selecting and designing oil and gas industry applications using Inconel 600 rod, specific process conditions, media properties and engineering requirements need to be considered to ensure optimal performance and reliability.

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 5540 Strip	Inconel 600	Strip
AMS 5580 Custom Tube	Inconel 600	Custom Tube

AMS Number	Alloy	Misc./Shape
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

contact us
email: victory@dlx-alloy.com
 Oem service:
 Welcome customized size
 We are experience factory for OEM&ODM service



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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