Oil And Gas Industry Inconel 625 NO6625 2.4856 Steel Round Bar With High Strength

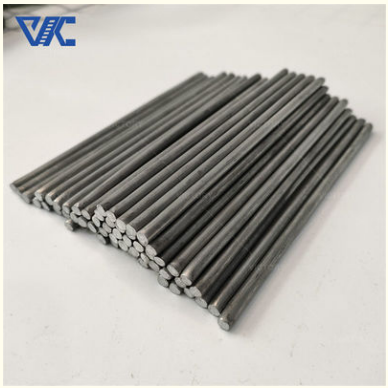
Our Product Introduction

Basic Information

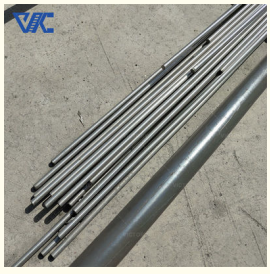
- Place of Origin: China
- Brand Name: Victory
- Certification: ISO9001
- Model Number: Inconel 625
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel 625 bar packed in Spool Carton box, Coil package with polybag,then in woodencase
- Delivery Time: 7-20 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

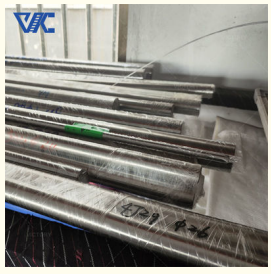
Product Specification

- Name: Inconel 625 Bar
- Material: Ni Cr Fe
- Ni (Min): 58%
- Application: Construction, IndustryOil Wells And Wellhead Equipment, Petroleum Refining Equipment
- Density: 8.44 G/cm3
- Thermal Expansion Coefficient: 12.8 X 10^(-6)/°C
- Thermal Conductivity: 13.3 W/(m·K)
- Melting Point: 1290-1350°C
- Modulus Of Elasticity: 205 GPa
- Sureface: Bright,Oxided
- Yield Strength: 275 MPa
- Tensile Strength: 620 MPa
- Elongation: 45%



More Images





Product Description

Our Product Introduction

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Introduction:

Inconel 625 rod is a high temperature alloy material commonly used in the oil and gas industry. Composed of elements such as nickel, chromium and molybdenum, it has excellent corrosion resistance and high-temperature strength. Inconel 625 rod has a high density (8.44 grams per cubic centimeter) and a high melting point (approximately 1,345°C) while having a low coefficient of linear expansion (12.8 x 10^-6/°C).

In the oil and gas industry, Inconel 625 rod is widely used in critical equipment and components, especially in corrosive and high temperature environments. It is used to manufacture important components such as oil well pipes, piping systems, valves and pumps. Due to its excellent corrosion resistance, Inconel 625 rod is able to withstand corrosion and corrosion fatigue in harsh oil and gas environments, maintaining equipment reliability and longevity.

The material is also widely used in refining equipment such as high-temperature furnace tubes and furnace throats, as well as wellheads and underwater pipeline systems in offshore oil and gas production. Inconel 625 rods are able to withstand the challenges of high temperatures and pressures, maintaining structural integrity and stable performance.

Inconel 625 rod has excellent mechanical properties, including high yield strength (approximately 590 MPa) and tensile strength (approximately 760 MPa). This enables it to withstand high loads and stresses and cope with extreme working conditions in the oil and gas industry.

Overall, Inconel 625 rod plays a key role in the oil and gas industry due to its excellent corrosion resistance, high temperature strength and mechanical properties. It is widely used in fields such as oil mining, refining, natural gas processing and offshore oil and gas extraction, providing reliable solutions to ensure the safe operation of equipment in harsh environments. The wide application range and excellent performance of Inconel 625 rod make it one of the indispensable materials in the oil and gas industry.

Characteristics:

Corrosion Resistance: Inconel 625 bar exhibits excellent corrosion resistance, making it highly resistant to acids, alkalis, saltwater, and chloride environments. It also resists oxidation and corrosion at elevated temperatures.

High Strength: Inconel 625 bar has good strength and retains its mechanical properties even at high temperatures. This makes it suitable for equipment and components in the oil and gas industry that are subjected to high pressures, temperatures, and stresses.

Oxidation Resistance: The alloy demonstrates outstanding oxidation resistance, maintaining stability in high-temperature oxidative environments and minimizing the effects of oxidation on the material.

Advantages:

Corrosion Resistance: One of the key advantages of Inconel 625 bar in the oil and gas industry is its exceptional corrosion resistance. It withstands stress corrosion cracking (SSC), hydrogen embrittlement, and other forms of corrosion, making it an ideal choice for handling acidic gases, seawater, and corrosive media.

High-Temperature Performance: Inconel 625 bar retains its strength and stability at high temperatures, making it suitable for high-temperature applications in the oil and gas industry, such as high-temperature furnace tubes, burners, heat exchangers, and catalyst support structures.

Weldability: Inconel 625 bar exhibits good weldability, allowing it to be welded to other metal materials using various welding methods, ensuring structural integrity and reliability.

Specific Applications:

Well and Wellhead Equipment: Inconel 625 bar can be used for casing, wellhead components, and well equipment. It withstands high pressures, temperatures, and corrosive media encountered in oil wells.

Oil and Gas Production Equipment: The alloy is suitable for high-temperature and corrosive environments in oil and gas production equipment, including petroleum refining units, furnace tubes, heat exchangers, and catalyst support structures.

Offshore Applications: Inconel 625 bar finds extensive use in offshore oil extraction and platform construction, such as seawater injection well tubing, offshore oil production equipment, and seawater treatment equipment.

Other Relevant Information:

Inconel 625 bar is also commonly used in aerospace, chemical, and nuclear industries, offering a wide range of applications.

When using Inconel 625 bar, it is essential to select the appropriate material based on specific process conditions and requirements, and conduct performance testing and engineering evaluations.

Inconel 625 bar can be processed, forged, and heat-treated to meet the needs of different applications.

Parameter:

Item	C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo	B
Inconel 625	≤0.08	≤0.35	rest	--	≤0.015	≤0.35	≤0.3	50-55	≤10	≤0.8	≤1.15	17-21	4.75-5.5	2.8-3.3	--

AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 5581	Inconel 625	Nickel	N06625		
AMS 5581 Custom Tube	Inconel 625	Nickel	N06625	-	Custom Tube
AMS 5581 Tubing	Inconel 625	Nickel	N06625	-	Tubing
AMS 5599	Inconel 625	Nickel	N06625		
AMS 5599 Plate	Inconel 625	Nickel	N06625	-	Plate
AMS 5599 Sheet	Inconel 625	Nickel	N06625	-	Sheet
AMS 5599 Strip	Inconel 625	Nickel	N06625	-	Strip
AMS 5666	Inconel 625	Nickel	N06625		
AMS 5666 Bar	Inconel 625	Nickel	N06625	-	Bar
AMS 5666 Custom Tube	Inconel 625	Nickel	N06625	-	Custom Tube
AMS 5666 Forging	Inconel 625	Nickel	N06625	-	Forging
AMS 5666 Ring	Inconel 625	Nickel	N06625	-	Ring
AMS 5869	Inconel 625	Nickel	N06625		
AMS 5869 Plate	Inconel 625	Nickel	N06625	-	Plate
AMS 5869 Sheet	Inconel 625	Nickel	N06625	-	Sheet
AMS 5869 Strip	Inconel 625	Nickel	N06625	-	Strip

contact us
email:victory@dlx-alloy.com

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service

Q & A:

Q: Can Inconel 625 bar be customized to specific sizes and dimensions?
A: Yes, Inconel 625 bar can be customized to meet specific size and dimension requirements, allowing for tailored solutions in various applications.

Q: Is Inconel 625 bar available in custom lengths or quantities?
A: Yes, Inconel 625 bar can be produced in custom lengths and quantities to accommodate the specific needs of customers, providing flexibility in procurement and project requirements.

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