

Marine Engineering Round Bar Of Nickel Alloy Inconel 625 Rods With Anti-Fatigue

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 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



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之信科技有限公司

Product Specification

• Name:	Inconel 625 Bar
Material:	Ni Cr Fe
• Ni (Min):	58%
Application:	Offshore Platform, Subsea Pipeline, Offshore Pump
 Density: 	8.44 G/cm3
 Thermal Expansion Coefficient: 	12.8 X 10^(-6)/°C
• Ultimate Strength (≥ MPa):	13.3 W/(m·K)
 Melting Point: 	1290-1350°C
 Elongation (≥ %): 	45%
Sureface:	Bright,Oxided
 Yield Strength: 	275 MPa
 Tensile Strength: 	620 MPa
- Highlight:	corrosion resistant inconel allov



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high temperature resistant inconel alloy

Introduction:

Inconel 625 rod is a commonly used high-performance alloy material in the field of marine engineering. Due to its excellent corrosion resistance and high temperature strength, Inconel 625 rod is able to handle the challenges of corrosion, seawater erosion and high temperature conditions in marine environments.

In ocean engineering, Inconel 625 rods are widely used in key components such as ocean platforms, subsea pipelines, ocean equipment and ocean exploration equipment. It can resist corrosion in seawater, salt spray and marine climate erosion, ensuring the reliability and long life of the equipment.

Inconel 625 rod is commonly used to manufacture equipment such as piping systems, valves and pumps on offshore platforms. It can withstand high pressure, high temperature and corrosive media in the marine environment, ensuring the safe operation of the offshore platform.

In addition, Inconel 625 rods are also widely used in subsea oil and gas pipeline systems. Due to its excellent corrosion resistance, it can resist corrosion in seawater and erosion of pipelines in high-temperature and high-pressure environments, maintaining the integrity and reliability of the pipeline.

Inconel 625 rods are also commonly used in ocean exploration equipment, such as ocean detectors, sonar devices and seabed samplers. These equipment need to be able to withstand the special environment of deep sea pressure and seawater corrosion, and Inconel 625 rods provide excellent performance.

Overall, Inconel 625 rod plays an important role in the field of marine engineering due to its excellent corrosion resistance, high temperature strength and mechanical properties. It is widely used in key components such as ocean platforms, submarine pipelines, ocean equipment and ocean exploration equipment to ensure the safety and reliability of ocean engineering. The wide application range and excellent performance of Inconel 625 rod make it one of the indispensable materials in marine engineering.

Characteristic:

Corrosion resistance: Inconel 625 rods have excellent corrosion resistance in marine environments and can resist the erosion of corrosive media such as seawater, salt spray, and chloride ions, so they are widely used in marine engineering. Resistance to marine corrosion fatigue: The alloy has good resistance to marine corrosion fatigue and can withstand complex mechanical and corrosive environments such as waves, tides and seawater flow for a long time in the marine environment. Resistance to stress corrosion cracking: Inconel 625 rod has a high resistance to stress corrosion cracking and can maintain its integrity under the combined action of high stress and corrosive media.

Advantage:

Seawater corrosion resistance: Inconel 625 rods can be used in the marine environment for a long time without being affected by seawater corrosion. Therefore, they are used in marine engineering to manufacture offshore platforms, submarine pipelines, marine equipment, etc.

High strength: The alloy has excellent strength, allowing it to withstand high stress and vibration loads in marine environments, making it suitable for applications such as structural parts and connectors in marine engineering. Marine Fatigue Resistance: Inconel 625 rods have good fatigue resistance and are able to maintain their strength and stability in long-term marine environments.

Application:

Offshore platforms: Inconel 625 rods are widely used in the manufacture of offshore platforms. Its corrosion resistance and high strength make it an important material on offshore platforms, able to withstand corrosion and mechanical loads in the marine environment.

Subsea Pipelines: This alloy is used in subsea pipeline systems to resist seawater corrosion and high pressure conditions. Inconel 625 rod's corrosion resistance and resistance to stress corrosion cracking make it an ideal material for subsea pipelines.

Marine equipment: Inconel 625 rods are also used in the manufacture of marine equipment, such as marine pumps, marine valves, and marine sensors. Its corrosion resistance and high temperature performance enable long-term stable operation in marine environments.

Other relevant knowledge points:

In marine engineering, there are strict requirements for materials in terms of corrosion resistance, marine corrosion fatigue resistance, high strength and stress corrosion cracking resistance. Therefore, choosing the right materials is crucial to the reliability and durability of marine projects.

The application of Inconel 625 rods in marine engineering also includes offshore oil exploration, marine energy utilization, marine environmental protection and other fields.

Inconel 625 is a nickel-based alloy containing chromium, iron, molybdenum and other alloying elements. It has excellent corrosion resistance, high temperature strength and good processing properties.

In addition to marine engineering, Inconel 625 rods are also widely used in aerospace, chemical industry, energy and other fields, such as aircraft engine components, chemical reactors, power plant burners and nuclear industry equipment. Inconel 625 bar can be formed and processed through hot processing (such as forging, hot rolling) and cold processing (such as cold drawing, cold rolling).

Parameter:

Item	С	Mn	Fe	Ρ	S	Si	Cu	Ni	Со	AI	Ti	Cr	Nb+Ta	Мо	В
Inconel 625	≤0.08	≤0.35	rest		≤0.01 5	≤0.35	≤0.3	50-55	≤10	≤0.8	≤1.15	17-21	4.75-5.5	2.8-3.3	

AMS Number	Alloy	Туре	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 Number	Alloy	Туре	UNS	Cross Ref. Spec	Misc./Shape
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





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





Q & A:

Q1: Can Inconel 625 rods be customized to specific dimensions or lengths for unique applications? A1: Yes, Inconel 625 rods can be customized to meet specific dimensional requirements and lengths based on the application needs. This allows for precise fitment and compatibility with various equipment and components.

Q2: Is it possible to request specific surface finishes or coatings for Inconel 625 rods? A2: Absolutely! Inconel 625 rods can be customized with specific surface finishes or coatings to enhance their performance in specific environments. This customization ensures optimal corrosion resistance, improved wear resistance, or other desired surface properties based on the application requirements.

