



Shipbuilding N07718 Inconel 718 Round Bar With Lightweight And High Strength

Our Product Introduction

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

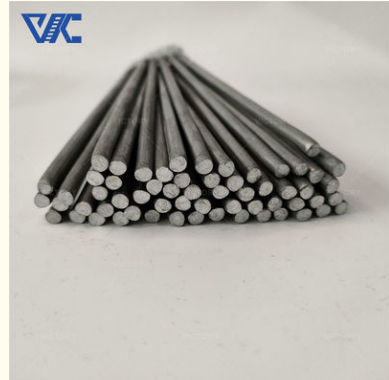
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO9001
- Model Number: Inconel 718
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Inconel 718 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

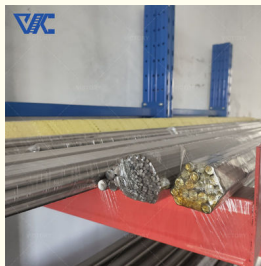
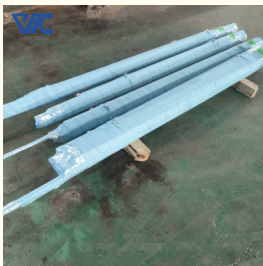


Product Specification

- Name: Inconel 718 Bar
- Material: Ni Cr Fe
- Ni (Min): 50%
- Application: Hull Structure, Engine And Exhaust System
- Density: 8.2 G/cm3
- Melting Point: 1,330°C
- Tensile Strength: 965 MPa
- Yield Strength: 550 MPa
- Sureface: Bright, Oxided
- Thermal Conductivity: 6.4 W/m-K
- Highlight: corrosion resistant inconel alloy, high temperature resistant inconel alloy



More Images



Product Description

Introduction:

Inconel 718 rod is a commonly used high-performance alloy material in shipbuilding. Due to its excellent corrosion resistance, high temperature strength and mechanical properties, Inconel 718 rod is able to cope with the challenges of seawater corrosion, high temperature and high stress in the marine industry.

In shipbuilding, Inconel 718 rod is often used to manufacture key components and equipment of ships. It is widely used in key components of power plants such as ship steam turbines, gas turbines and diesel engines, such as combustion chambers, turbine blades and nozzles. Due to its excellent high temperature strength and oxidation resistance, Inconel 718 rod is able to withstand the high temperature, high pressure and corrosive media requirements found in marine engines.

Overall, Inconel 718 rod plays an important role in shipbuilding due to its excellent corrosion resistance, high temperature strength and mechanical properties. It is widely used in key components such as ship's power plant, heat exchange equipment and seawater treatment system to ensure the reliability, safety and performance of the ship. The wide application range and excellent performance of Inconel 718 rod make it one of the indispensable materials in shipbuilding.

Characteristic:

High Strength: Inconel 718 rod has excellent strength, providing good structural support and load-bearing capacity.

Corrosion resistance: This alloy has good corrosion resistance and can resist the erosion of corrosive media such as sea water and salt spray.

Fatigue resistance: Inconel 718 bar has good fatigue resistance and can withstand the influence of cyclic stress during ship operation without being prone to fatigue damage.

Wear resistance: This alloy has good wear resistance and can maintain a long service life in harsh sea conditions.

Advantage:

Lightweight and high strength: Inconel 718 rods have a lower density than traditional steel, so they can achieve weight savings in shipbuilding while providing good strength and rigidity.

Seawater corrosion resistance: Inconel 718 rods have excellent corrosion resistance in marine environments and can resist corrosion from corrosive media such as seawater and salt spray, thereby extending the service life of the ship.

High temperature performance: The alloy has good high temperature stability and can maintain its strength and structural integrity in high temperature environments. It is suitable for some ship parts that need to operate under high temperature conditions.

Application:

Hull structure: Inconel 718 bars can be used in the manufacture of ship hull structures, such as ship hull frames, masts and beams, providing good strength and structural support capabilities.

Marine engines and exhaust systems: This alloy is also commonly used in marine engines and exhaust systems. Its high-temperature strength and corrosion resistance make it an ideal material for manufacturing critical components such as ship engines, turbochargers, and exhaust ducts.

Marine accessories: Inconel 718 rods can also be used to manufacture various marine accessories, such as valves, pumps, drive shafts and connectors.

Other relevant knowledge points:

Inconel 718 is a nickel-based high-temperature alloy containing chromium, iron, molybdenum and other alloying elements. It has good high temperature strength, corrosion resistance and fatigue resistance.

In the field of shipbuilding, there are important requirements for materials such as lightweight, high strength, corrosion resistance and fatigue resistance. Choosing the right materials can improve your vessel's performance, reliability and service life.

Ships face challenges such as seawater corrosion and salt spray corrosion in the marine environment. Therefore, the corrosion resistance of materials is very important to ship manufacturing. The excellent properties and advantages of Inconel 718 rod make it one of the ideal choices for shipbuilding.

Parameter:

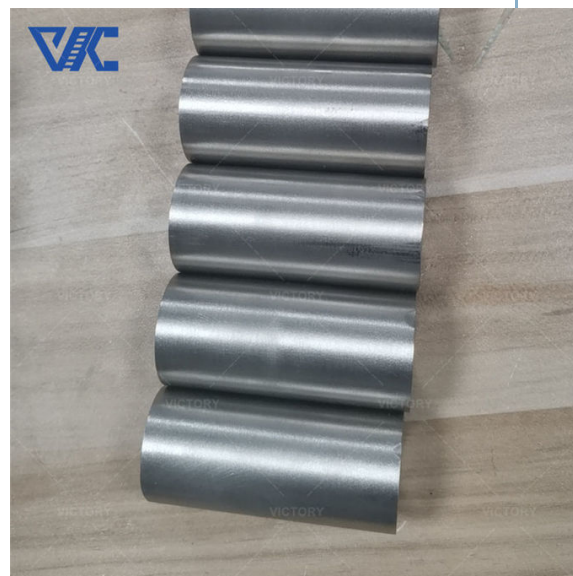
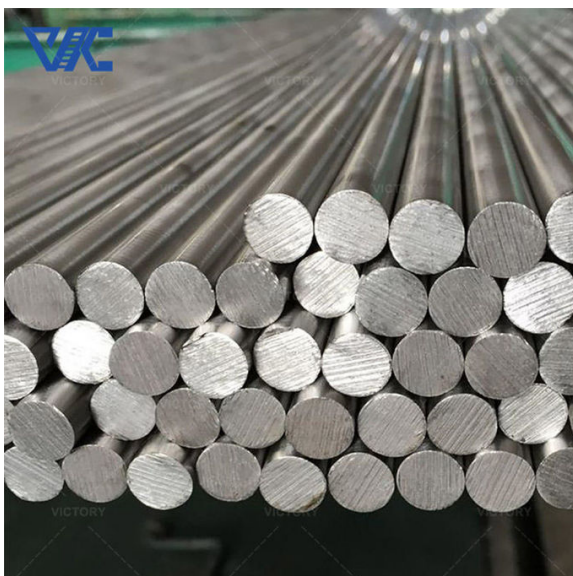
Item	C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo	B
Inconel 718	≤0.08	≤0.35	rest	--	≤0.01	≤0.35	≤0.3	50-55	≤1	0.2-0.8	--	17-21	4.75-5.5	2.8-3.3	--

AMS Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
AMS 5590	Inconel 718	Nickel	N07718	-	Tubing
AMS 5596 Foil	Inconel 718	Nickel	N07718	-	Foil
AMS 5596 Plate	Inconel 718	Nickel	N07718	-	Plate
AMS 5596 Sheet	Inconel 718	Nickel	N07718	-	Sheet
AMS 5596 Strip	Inconel 718	Nickel	N07718	-	Strip
AMS 5597 Plate	Inconel 718	Nickel	N07718	-	Plate
AMS 5597 Sheet	Inconel 718	Nickel	N07718	-	Sheet
AMS 5597 Strip	Inconel 718	Nickel	N07718	-	Strip
AMS 5662 Bar	Inconel 718	Nickel	N07718	-	Bar
AMS 5662 Custom Tube	Inconel 718	Nickel	N07718	-	Custom Tube
AMS 5662 Ring	Inconel 718	Nickel	N07718	-	Ring
AMS 5663 Bar	Inconel 718	Nickel	N07718	-	Bar
AMS 5663 Custom Tube	Inconel 718	Nickel	N07718	-	Custom Tube
AMS 5663 Ring	Inconel 718	Nickel	N07718	-	Ring
AMS 5664 Bar	Inconel 718	Nickel	N07718	-	Bar
AMS 5664 Custom Tube	Inconel 718	Nickel	N07718	-	Custom Tube
AMS 5664 Ring	Inconel 718	Nickel	N07718	-	Ring
AMS 5832	Inconel 718	Nickel	N07718	-	Wire
AMS 5962 Bar	Inconel 718	Nickel	N07718	-	Bar
AMS 5962 Wire	Inconel 718	Nickel	N07718	-	Wire



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



Q & A:

Q: Can Inconel 718 bar be provided in customized sizes and dimensions?

A: Yes, Inconel 718 bar can be customized to specific sizes and dimensions to meet the requirements of different applications.

Q: Is heat treatment available for Inconel 718 bar?

A: Yes, Inconel 718 bar can undergo heat treatment processes such as solution annealing and age hardening to optimize its mechanical properties and enhance its performance in specific applications.



Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

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