Hot Rolled Inconel Alloy 718 Seamless Tube And Welded Pipes For Aerospace Industry

Our Product Introduction

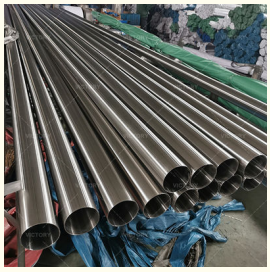
Basic Information

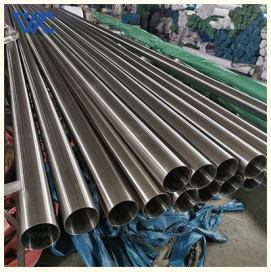
- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 718
- Minimum Order Quantity: 1 Kg
- Price: Negotiable
- Packaging Details: Packed as coil. Special packaging requirements can also be accommodated. OEM is also acceptabl
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 500 Ton/Tons per Month

Product Specification

- Product Name: Inconel 718 Pipe
- Material: Ni Cr Fe
- Ni (Min): 50%
- Application: Engine Components, Gas Turbines, Spacecraft Structures
- Density: 8.2 G/cm3
- Melting Point: 1,330°C
- Tensile Strength: 965 MPa
- Yield Strength: 550 MPa
- Thermal Conductivity: 6.4 W/m·K
- Highlight: **Inconel Alloy Tube**, **Corrosion Resistant Inconel Alloy Pipe**, **Nickel Alloy Inconel Tube**

More Images





Product Description

Our Product Introduction

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Introduction:

Inconel 718 Pipe is a high-temperature alloy pipe made of nickel, chromium, and iron. It is widely used in the aerospace industry for applications such as engine components, gas turbines, and spacecraft structures. With a density of 8.2 g/cm3 and a melting point of 1,330°C, it exhibits excellent strength and durability. The pipe has a high tensile strength of 965 MPa and a yield strength of 550 MPa, ensuring its reliability in demanding environments. Additionally, it has a thermal conductivity of 6.4 W/m·K, allowing for efficient heat transfer. Inconel 718 Pipe provides a reliable material solution for aerospace applications, offering a combination of high-temperature resistance, corrosion resistance, and mechanical strength.

Characteristic:

High temperature strength: Inconel 718 pipe has excellent high temperature strength and can maintain high mechanical properties and structural stability under high temperature conditions.
Corrosion resistance: The pipe has excellent corrosion resistance and can withstand corrosive media in the aerospace industry, including high-temperature gases, fuels and lubricants.
Fatigue resistance: Inconel 718 pipe can maintain good fatigue resistance under cyclic stress and high stress, and is suitable for high stress and vibration environments in the aerospace industry.

Advantage:

High Temperature Performance: One of the advantages of Inconel 718 tube in the aerospace industry is its excellent high temperature performance, being able to withstand the requirements found in high temperature engine exhaust and combustion chamber environments.
Strength to weight ratio: The tube has a high strength to weight ratio, making it ideal for lightweight designs in the aerospace industry, reducing the structural weight of aircraft.
Corrosion resistance: Inconel 718 pipe has good corrosion resistance and can resist corrosive media in the aerospace industry and extend the service life of aircraft.

Application:

Engine components: Inconel 718 tubing can be used in critical components in aerospace engines, such as turbine blades, nozzles, and combustion chamber components. Its high temperature strength and corrosion resistance allow it to withstand high temperature and high pressure working environments.
Gas turbines: Inconel 718 tube is used in gas turbines in the aerospace industry, such as turbojet engines and turboprops. Its high temperature performance and fatigue resistance make it suitable for the requirements of high speed rotation and high temperature air flow.
Spacecraft structures: Inconel 718 tubes can be used in structural components of aerospace vehicles, such as missile casings, propulsion systems and load support structures. Its strength and corrosion resistance allow it to withstand the mechanical loads of spacecraft and the external environment.

Other relevant knowledge points:

The aerospace industry refers to the industrial field involving the development, manufacturing, testing and operation of aircraft and spacecraft.
In the aerospace industry, material selection requires considerations such as high-temperature performance, strength-to-weight ratio, corrosion resistance, and fatigue resistance.
The design, manufacturing and operation of aerospace vehicles require compliance with strict aerospace standards and specifications to ensure the safety, reliability and compliance of the aircraft with aerospace industry requirements.

Parameter:

Chemical Properties of Inconel 718

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	--

Type we could offer

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 Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
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 Number	Alloy	Type	UNS	Cross Ref. Spec	Misc./Shape
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 your company provide customized Inconel 718 tube solutions?
A: Yes, we offer customized solutions for Inconel 718 tubes. Our experienced team works closely with customers to understand their specific requirements and tailors the tubes to their desired dimensions, lengths, and shapes.

Q: What is the typical lead time for manufacturing customized Inconel 718 tubes?
A: The lead time for manufacturing customized Inconel 718 tubes depends on various factors, including the complexity of customization and the quantity required. However, we strive to minimize lead times and provide efficient turnaround.

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