Corrosion Resistance Inconel Pipe 690 Nickel Alloy Seamless Tube For Oil And Gas Industry

Our Product Introduction

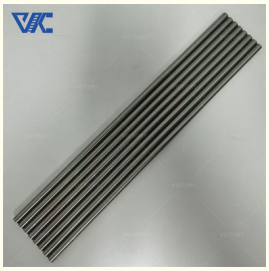
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Inconel 690
- 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 690 Pipe
- Material: Ni Cr Fe
- Ni (Min): 58-63%
- Density: 8.19 G/cm3
- Melting Point: 1340-1380°C
- Thermal Conductivity: 11.2-12.6 W/(m·K)
- Tensile Strength: 690 MPa
- Yield Strengt: 310 MPa
- Elongation (≥ %): 40%
- Application: Petroleum Refining Equipment, Oil Well Casing And Pipelines
- 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 690 pipe is a commonly used high temperature alloy pipe in the oil and gas industry. Constructed of nickel, chromium, iron and other alloying elements, Inconel 690 pipe has excellent corrosion resistance and high temperature stability.
The chemical composition of Inconel 690 tubes includes nickel (58-63%), chromium (27-31%), iron (7-11%), molybdenum (0.5% max), manganese (0.5% max), titanium (0.5% max)) and copper (max. 0.5%). The pipe has a density of 8.19 g/cm³ and a thermal expansion coefficient of 13.3 μm/m·°C (20-1000°C). Its tensile strength can reach a minimum of 690 MPa, and its yield strength can reach a minimum of 310 MPa.
In the oil and gas industry, Inconel 690 pipe is widely used in pipes, heat exchangers and other equipment in high temperature and corrosive environments. Due to the presence of high temperatures and corrosive media during oil and gas extraction, processing and transportation, Inconel 690 pipe can provide excellent corrosion resistance and high temperature performance to ensure reliable operation of pipelines.
Inconel 690 pipe has excellent corrosion resistance and can resist the erosion of corrosive substances such as hydrogen sulfide, acidic media and chlorine-containing compounds. At the same time, it can maintain good mechanical properties and stability in high temperature environments, ensuring long-term operational reliability in the oil and gas industry.

Product Features:

Corrosion resistance: Inconel 690 pipe has excellent corrosion resistance and can resist corrosive media in the oil and gas industry, including acids, salt solutions and sulfides.
Oxidation resistance: The pipe exhibits excellent high-temperature oxidation resistance and is able to maintain stable performance in high-temperature oil and gas environments.
High Temperature Strength: Inconel 690 pipe has good strength and toughness at high temperatures and is able to withstand the high temperature and high pressure environments found in the oil and gas industry.

Advantage:

Corrosion resistance: Inconel 690 pipe has excellent corrosion resistance in the oil and gas industry. It can resist the erosion of pipelines by corrosive media and extend the service life of equipment.
Resistance to high-temperature oxidation: In high-temperature oil and gas industrial environments, Inconel 690 pipe exhibits excellent resistance to high-temperature oxidation, ensuring that the pipeline material works stably for a long time.
High temperature strength: Inconel 690 pipe has good high temperature strength and toughness, is suitable for high temperature and high pressure conditions in the oil and gas industry, and can withstand stress and load.

Specific applications:

Petroleum refining equipment: Inconel 690 pipe can be used in high-temperature pipelines and heat exchangers in petroleum refining equipment to withstand the effects of high-temperature oil and corrosive media.
Natural gas processing unit: Suitable for pipelines and equipment in natural gas processing units, such as the transportation and processing of corrosive gases, the storage of corrosive liquids, etc., to ensure the long-term operation and reliability of the equipment.
Oil well casing and pipelines: Inconel 690 pipe can also be used in oil and gas extraction fields such as oil well casing and pipelines to meet the requirements of high temperature, high pressure and corrosive environments.

Other relevant knowledge:

Composition of Inconel 690 alloy: Inconel 690 alloy is mainly composed of alloying elements such as nickel, chromium and iron. The reasonable ratio of these elements gives the alloy excellent corrosion resistance and high temperature strength.
Heat Treatment and Processing: Inconel 690 pipe typically requires heat treatment to improve its mechanical properties and corrosion resistance. In addition, the alloy can be formed and processed through processes such as cold working and welding to meet the needs of the oil and gas industry.
Safety and Environmental Protection: The use of Inconel 690 pipe can improve the safety and reliability of oil and gas industry equipment and reduce the risk of leaks and environmental pollution.

Parameter:

Diameter range: from 0.03 mm to 12 mm
Standard specifications: ASTM B166, AMS 5599, AMS 5666
Typical chemical composition: nickel (58-63%), chromium (27-31%), iron (7-11%), molybdenum (0.5-1.0%), zirconium (0.02-0.12%), etc.
Typical mechanical properties: tensile strength 690 MPa (minimum), yield strength 310 MPa (minimum), elongation at break 40% (minimum)

Item	C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo	B
Inconel 690	≤0.05	≤0.5	7-11	--	≤0.015	≤0.5	≤0.5	≥58	--	--	--	27-31	--	--	--

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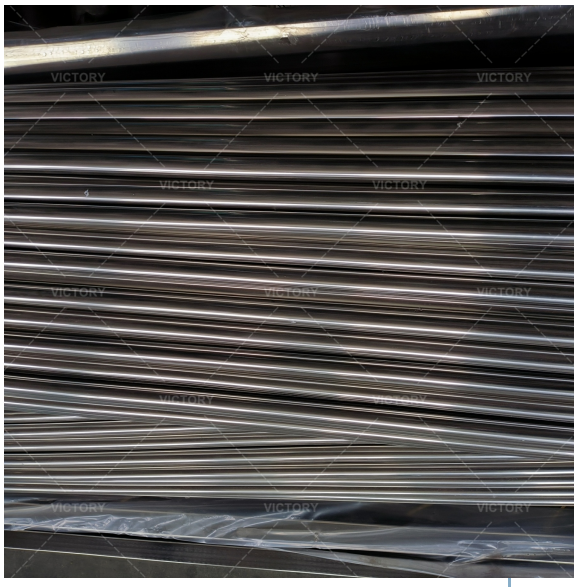
email:victory@dlx-alloy.com
Oem service:
Welcome customized size
We are experience factory for OEM&ODM service



Q & A:

Q: What kind of testing is conducted to ensure the quality of Inconel 690 tubes?
A: We conduct rigorous testing on Inconel 690 tubes to ensure their quality and performance. This includes non-destructive testing methods such as ultrasonic testing and visual inspections to detect any defects or imperfections.

Q: Are your Inconel 690 tubes certified to meet industry standards?
A: Yes, our Inconel 690 tubes are manufactured and certified to meet industry standards. They undergo thorough testing and inspection processes to ensure compliance with the required specifications.

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