

Chemical Industry Nickel Alloy Inconel 690 Bar With Higher Resistance

Basic Information

 Place of Origin: 	China	7
 Brand Name: 	Victory	
Certification:	ISO9001	
 Model Number: 	Inconel 690	
Minimum Order Quantity:	5 Kg	
• Price:	Negotiable	
 Packaging Details: 	Inconel 690 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	



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Product Specification

•	Name:	Inconel 690 Bar
•	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
•	Sureface:	Bright,Oxided
•	Yield Strengt:	310 MPa
•	Application:	Chemical Reactors, Distillation Columns, Storage Tanks And Pipelines

• Highlight:



More Images



Nickel Alloy Inconel 690 Bar, Chemical Industry Inconel 690 Bar, 63% Nickel Alloy Inconel Bar

Introduction:

Inconel 690 rod is also a commonly used highly corrosion-resistant alloy material in the chemical processing industry. It is a nickel-based alloy with excellent corrosion resistance and high-temperature strength, and is especially suitable for corrosive media and high-temperature environments in the chemical processing industry.

In the chemical processing industry, Inconel 690 rod is commonly used to manufacture corrosion-resistant equipment and components. It can be used to manufacture key equipment such as chemical reactors, distillation columns, storage tanks, pipes and valves, especially in processes where strong acids, strong alkali, high temperatures and high pressures exist. Due to its excellent corrosion resistance, Inconel 690 rod can resist the erosion of various corrosive media, ensuring the reliability and long-term service life of chemical equipment.

Additionally, Inconel 690 rods are commonly used in thermal processing equipment such as heat exchangers, condensers and evaporators in the chemical processing industry. Due to its excellent high temperature strength and corrosion resistance, Inconel 690 rod is able to provide reliable heat conduction and heat exchange performance under conditions of high temperature and corrosive media, ensuring efficient operation of the process.

Overall, Inconel 690 rod plays an important role in the chemical processing industry due to its excellent corrosion resistance, high temperature strength and chemical stability. It is widely used in key components such as chemical equipment, heat treatment equipment and catalysts to ensure the reliability, safety and efficiency of chemical processing processes. The wide range of applications and excellent performance of Inconel 690 rod make it one of the indispensable materials in the chemical processing industry.

Characteristic:

Corrosion resistance: Inconel 690 rod has excellent corrosion resistance and can resist various corrosive media, including acids, alkalis, salts, etc., especially in high temperature and corrosive environments.

Oxidation Resistance: The alloy has excellent oxidation resistance and is able to maintain structural integrity and mechanical properties in high temperatures and oxidizing environments.

High temperature strength: Inconel 690 rod has good high temperature strength and deformation resistance, and can maintain high mechanical properties at high temperatures.

Resistance to stress corrosion cracking: This alloy has high resistance to stress corrosion cracking and can withstand the combined effects of high stress and corrosion during chemical processing.

Advantage:

Corrosion resistance: Inconel 690 rods perform well in strong acids, strong alkali, high temperatures and corrosive media in the chemical processing industry, and can operate stably for a long time and extend the service life of equipment.

Resistance to stress corrosion cracking: This alloy has high resistance to stress corrosion cracking and is suitable for equipment and components that withstand high stress and corrosive environments.

High temperature stability: Inconel 690 rods can maintain high strength and mechanical properties in high temperature environments, and are suitable for high temperature chemical reactions and processing processes.

Oxidation resistance: The alloy has good oxidation resistance and can maintain structural integrity in oxidizing environments and reduce oxidation losses of equipment.

Application:

Chemical reactors: Inconel 690 rods can be used to manufacture chemical reactors, such as high-temperature acid-base reactors, oxidation reactors, etc. Its corrosion resistance and high temperature strength enable it to withstand corrosive media and high temperature conditions during chemical reactions.

Distillation towers and absorption towers: The alloy can be used to manufacture distillation towers and absorption towers in chemical processes, such as petroleum refining, chemical industry and coal chemical industry. Its corrosion resistance and resistance to stress corrosion cracking make it suitable for material separation and purification processes handling corrosive media and high temperature conditions.

Storage tanks and pipes: Inconel 690 rods can be used to manufacture chemical storage tanks and pipes, such as acid storage tanks, alkali storage tanks and high temperature pipes. Its resistance to corrosion and stress corrosion cracking allows it to safely store and transport a wide range of chemicals.

Catalyst carrier: This alloy can be used as a catalyst carrier to support and stabilize the catalyst in chemical processing processes. Its high temperature strength and corrosion resistance allow it to withstand high temperatures and corrosive environments during catalytic reactions.

Other relevant knowledge points:

Inconel 690 is a nickel-chromium-iron-based alloy that contains small amounts of elements such as aluminum, molybdenum and titanium to improve its high-temperature strength and corrosion resistance.

The alloy is a type of high-temperature alloy that is commonly used in applications that withstand heavy loads in high temperatures and corrosive environments.

Inconel 690 bar can be obtained by hot processing (such as hot rolling, forging) and cold processing (such as cold drawing, cold rolling) to obtain the required shape and size.

In the chemical processing industry, material selection is very important, and the effects of factors such as corrosive media, temperature, pressure, and stress on material properties need to be taken into consideration to ensure safe operation and long life of the equipment.

Parameter:

Chemical composition:

Inconel 690 Wire is mainly composed of nickel (Ni) and chromium (Cr). The nickel content is about 58-63% and the chromium content is about 27-31%. In addition, it also contains some other elements, such as iron (Fe), molybdenum (Mo), copper (Cu), manganese (Mn), etc.

Physical properties:

Density: 8.19 g/cm³ Melting point: 1338-1381°C Modulus of elasticity: 214 GPa Thermal conductivity: 10.1 W/(m·K) (room temperature) Linear expansion coefficient: 13.1 µm/m·K (room temperature)

Item	С	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Мо	В
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:

Q1: Can you provide customized dimensions and lengths for Inconel 690 bars to meet specific project requirements? A1: Absolutely! We understand the importance of tailored solutions, and we offer customized dimensions and lengths for Inconel 690 bars. Our skilled team and advanced manufacturing capabilities enable us to meet precise specifications, ensuring a perfect fit for your project.

Q2: Is it possible to request special surface finishes or coatings on Inconel 690 bars for enhanced performance? A2: Yes, we offer options for special surface finishes and coatings on Inconel 690 bars to enhance their performance in specific applications. Whether you require improved corrosion resistance, better wear resistance, or other desired surface properties, we can work with you to provide customized solutions that meet your unique needs.

