

## Petroleum And Chemical Industry Nickel Base Alloy Inconel 690 Wire With Anti Corrosion

## **Basic Information**

<ul> <li>Place of Origin:</li> </ul>	China
Brand Name:	Victory
Certification:	CE,ROHS,ISO 9001
Model Number:	Inconel 690
Minimum Order Quantity:	5 Kg
Price:	Negotiable
<ul> <li>Packaging Details:</li> </ul>	Inconel 690 wire packed in Spool Carton box, Coil package with polybag,then in woodencase
Delivery Time:	5-21 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**

•	Highlight:	Nickel Base Inconel Alloy Wire, Anti Corrosion Inconel Alloy Wire
•	Sureface:	Bright,Oxided
•	Application:	Petroleum And Chemical Industry
•	Elongation ( $\geq$ %):	40%
•	Yield Strengt:	310 MPa
•	Tensile Strength:	690 MPa
•	Thermal Conductivity:	11.2-12.6 W/(m·K)
•	Melting Point:	1340-1380°C
•	Density:	8.19 G/cm3
•	Nickel(Min):	58-63%
•	Material:	Ni Cr Fe
•	Product Name:	Inconel Wire



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#### Introduction:

Inconel 690 alloy wire has a wide range of applications in the petroleum and chemical industries. As a corrosion-resistant alloy wire, Inconel 690 offers superior performance and reliability. It is widely used in the petroleum and chemical industries for critical parts and equipment in corrosion-resistant and high-temperature environments.

Inconel 690 alloy wire has excellent corrosion resistance and can resist erosion by corrosive media such as sulfide corrosion, oxidation and high temperature oxidation. This makes it ideal for handling corrosive media in the petroleum and chemical industries. In petroleum refining units, Inconel 690 alloy wire is often used to manufacture equipment such as pipelines, furnaces and heating elements to ensure reliable operation under high temperatures, high pressures and corrosive environments.

#### **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	С	Mn	Fe	Р	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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	EMA			Size Range (mm)			
				Wire	0.5-7.5		
VIC				Rod/Bar	8.0-200		
		STER		Strip	(0.50-2.5)*(5-180)		
				Tube	custom made		
				Plate	custom made		

#### **Characteristic:**

Corrosion resistance: Inconel 690 alloy wire has excellent corrosion resistance and can resist the erosion of corrosive media such as sulfuric acid, hydrochloric acid, and chloride.

High temperature performance: It can maintain good mechanical properties and creep resistance in high temperature environments.

Oxidation resistance: Inconel 690 alloy wire exhibits good oxidation resistance and can be used stably for a long time in high-temperature oxidizing environments.

High strength: It has excellent tensile strength and yield strength, and can withstand the requirements of high strength and high pressure environments.

#### Advantage:

Corrosion resistance: Inconel 690 alloy wire shows excellent corrosion resistance in corrosive media, which can extend the service life of equipment.

High temperature stability: It can maintain stable performance in high temperature environments and is suitable for high temperature processes and equipment.

Creep resistance: It has good creep resistance and can maintain shape stability under high temperature and high stress conditions.

Processability: Inconel 690 alloy wire has good processability and is capable of various processing and forming operations.

#### **Application:**

Petroleum refining: used to manufacture equipment such as furnaces, pipes and heating elements to cope with high temperatures, high pressures and corrosive media.

Chemical processing: Suitable for chemical reactors, petrochemical plants and distillation equipment, etc., providing stable performance in corrosion-resistant and high-temperature environments.

Oil extraction: Used in oil wells for tubing and production equipment, able to resist erosion from acidic and high-temperature environments.

Gas Processing: Corrosion resistance and high temperature durability in natural gas processing, coal gasification and gasification units.

Overall, Inconel 690 alloy wire is an ideal material choice in the petroleum and chemical industries to meet the challenges of corrosive media, high temperature and high pressure environments. Its corrosion resistance, high temperature stability and processability make it a reliable material for critical components and equipment.

#### contact us

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#### Q & A:

Q: Is Inconel 690 wire easily weldable?

A: Yes, Inconel 690 wire exhibits good weldability, allowing it to be easily welded using various methods such as gas tungsten arc welding (GTAW) and shielded metal arc welding (SMAW).

Q: What industries benefit from the weldability of Inconel 690 wire?A: Industries such as chemical processing, power generation, and marine engineering benefit from the weldability of Inconel 690 wire, as it enables the fabrication of complex structures and components while maintaining its excellent corrosion resistance and mechanical properties.

