Good Anti Fatigue High Temperature Alloy Wire GH4169 Nickel Alloy Wire Inconel 718

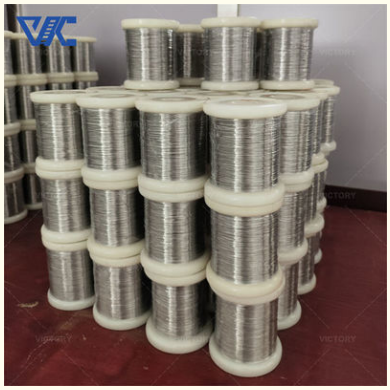
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: GH4169/Inconel 718
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Spool package with Carton box, Coil package with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Product Name: GH4169/Inconel 718 Wire
- Material: Nickel Chromium
- Nickel(Min): 50%
- Density: 8.24 G/cm³
- Melting Point: 1260~1320°C
- Tensile Strength: 965 MPa
- Yield Strength: 550 MPa
- Application: Aviation And Aerospace Engines
- Highlight: **High Temperature Alloy Wire GH4169**, **Inconel 718 High Temperature Alloy**, **Anti Fatigue High Temperature Alloy**



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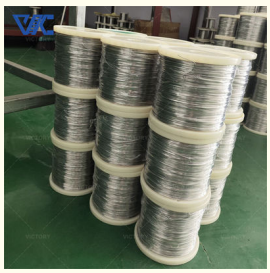

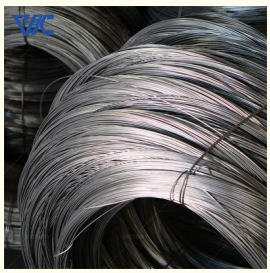


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Product Description

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Introduction:

GH4169 wire, also known as Inconel 718, is a nickel-based high-temperature alloy wire. It is a material with excellent high temperature strength, corrosion resistance and heat resistance.

The main components of GH4169 wire include nickel (Ni), chromium (Cr), iron (Fe), titanium (Ti) and other elements. It has excellent high temperature stability and can maintain excellent mechanical properties and corrosion resistance in high temperature environments. The material also exhibits excellent heat resistance and has good oxidation resistance and creep resistance.

GH4169 wire is widely used in aerospace, energy, chemical and other fields. In the aerospace field, it is often used to manufacture aircraft engine components, combustion chambers, turbine blades and high-temperature structural parts. In the energy field, GH4169 wire can be used to manufacture oil and gas extraction equipment, nuclear power plant components, and turbine and generator components. In addition, it is also used in high-temperature reactors, catalysts and steam generators in the chemical industry.

GH4169 wire has good processability and can be processed and formed through heat treatment, cold working and welding. Its high-temperature strength, corrosion resistance and heat resistance make it an ideal material choice for high temperatures and extreme environments. Whether in the fields of aerospace, energy or chemical industry, GH4169 wire has demonstrated excellent performance and reliability.

Parameter:

Chemical composition:
Nickel (Ni): about 50-55%
Chromium (Cr): about 17-21%
Iron (Fe): about 17-21%
Physical parameters:
Density: about 8.2 g/cubic centimeter
Melting point: about 1260-1340 degrees Celsius
tensile strength:
Room temperature strength (yield strength): about 965 MPa (MPa)
Room temperature tensile strength: about 1030 MPa (MPa)
Thermal expansion coefficient: approximately 12.1 x 10^-6/degrees Celsius (from room temperature to 100 degrees Celsius)
Corrosion resistance: GH4169 exhibits excellent corrosion resistance and has good resistance to many acidic and alkaline media.
Similar brands
Inconel718 (USA), NC19FeNb France

Chemical Composition (%)														
Brand	C	Si	Mn	S	P	Cr	Co	W	Mo	Ti	Al	Fe	Ni	other
	Less than													
GH4169	0.08	0.35	0.35	0.015	0.015	17~21	≤1		2.8 3.3	0.65~1.15	0.2~0.8	rest	50~55	Cu≤0.3 Nb:4.75-5.5 Mq≤0.01 B≤0.006

The minimum mechanical properties of the alloy at room temperature						
Brand	heat treatment	tensile strength RmN/mm²	Yield strength Rp0.2N/mm2	Elongation As%	Brinell hardness HB	Rockwell hardness HRC
GH4169	solid solution + aging	1275	1034	15	≥331	

Characteristic:

High temperature strength: GH4169 wire has excellent high temperature strength and can maintain stable mechanical properties in high temperature environments.
Corrosion resistance: It shows excellent corrosion resistance and can resist the erosion of acidic, alkaline and oxidizing media.
Heat resistance: GH4169 wire has good heat resistance and is suitable for applications in high temperatures and extreme environments.

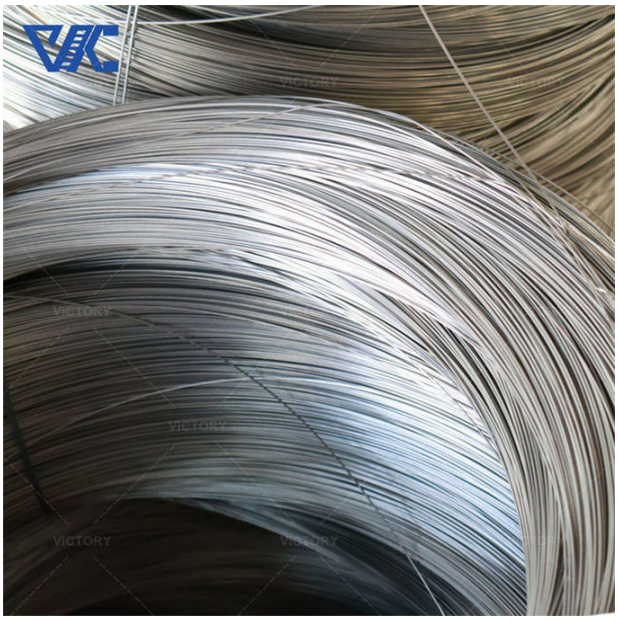
Specifications and condition:

We can supply die forgings (discs, disk integral forgings), cakes, rings, bars (forged bars, rolled bars, cold drawn bars), plates, wires, belts, tubes, fasteners of different shapes and sizes, elastic components, etc. The delivery status is agreed between the supplier and the buyer. Wire is delivered in reels in the agreed delivery condition.

The alloy smelting process is divided into three categories: vacuum induction electroslag remelting; vacuum induction plus vacuum arc remelting; vacuum induction plus electroslag remelting plus vacuum arc remelting. According to the use requirements of the parts, the required smelting process can be selected to meet the application requirements.

Specific application areas:

Aerospace: used to manufacture aerospace engine components, turbine blades, combustion chambers and high-temperature structural parts, etc.
Energy industry: used in oil and gas extraction equipment, nuclear power plant components, generator components, etc.
Chemical industry: used in high-temperature reactors, catalysts, steam generators and corrosion-resistant equipment, etc.



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Oem service:
Welcome customized size
We are experience factory for OEM&ODM service

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