



Good Mechanical Properties Nickel Alloy Wire GH3030 Wire Non Magnetic

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS, ISO 9001
- Model Number: GH3030
- 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

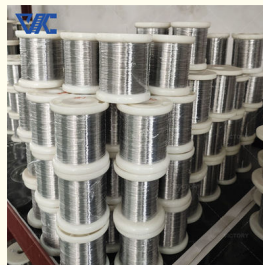


Product Specification

- Product Name: GH3030 Wire
- Material: Nickel Chromium
- Nickel (Min): 57%
- Density: 8.19g/cm³
- Melting Point: 1360-1411°C
- Tensile Strength: 690 MPa
- Yield Strength: 310 MPa
- Application: Aerospace, Petrochemical, Nuclear Industry
- Highlight: **Non magnetic GH3030 Wire,
Good Mechanical Properties GH3030 Wire**



More Images



Product Description

Introduction:

GH3030 wire is a nickel-based high-temperature alloy wire, the material has excellent high-temperature strength, corrosion resistance and oxidation resistance, and performs well in high-temperature environments.

The chemical composition of GH3030 wire mainly includes elements such as nickel (Ni), chromium (Cr), and iron (Fe). It has good high temperature stability and can maintain high mechanical properties and corrosion resistance under high temperature conditions. The material also has good oxidation resistance and can resist high-temperature oxidation and hot corrosion.

GH3030 wire is widely used in aerospace, chemical, petroleum and nuclear industries. In the aerospace field, it is often used to manufacture high-temperature components such as aircraft engine components, combustion chambers and nozzles. In the chemical and petroleum industries, GH3030 wire can be used to manufacture corrosion-resistant equipment such as furnace tubes, heat exchangers and reactors. In addition, it is used in nuclear reactors and nuclear fuel processing equipment in the nuclear industry.

GH3030 wire has good processability and can be processed and formed through heat treatment, cold working and welding. Its high temperature performance and corrosion resistance make it an important material choice in high temperature environments. Whether in aerospace, chemical, petroleum or nuclear industry applications, GH3030 wire exhibits excellent performance and reliability.

Parameter:

chemical composition:

Nickel (Ni): about 57-63%

Chromium (Cr): about 21-25%

Iron (Fe): about 8-11%

Physical coefficients:

Density: approximately 8.1 g/cm³

Melting point: approximately 1360-1411 degrees Celsius

Tensile strength: At room temperature, the tensile strength is approximately 690 MPa

Yield strength: At room temperature, the yield strength is approximately 310 MPa

Thermal expansion coefficient: Linear thermal expansion coefficient is approximately 13.1×10^{-6} degrees Celsius⁻¹ (range 20-1000 degrees Celsius)

Thermal Conductivity: Approximately 11.1 Watt/meter-Kelvin (20 degrees Celsius)

Creep resistance: GH3030 alloy has good creep resistance at high temperatures.

Similar brands

3H435, XH78T (Russia)

Chemical Composition (%)															
Brand	C	Si	Mn	S	P	Cr	Co	W	Mo	Ti	Al	Fe	Ni	other	
	Less than														
GH3030	0.12	0.8	0.7	0.02	0.03	19~22	—	—	—	0.15~0.3 5	≤0.15	≤1.5	rest	—	

The minimum mechanical properties of the alloy at room temperature						
Brand	heat treatment	tensile strength RmN/mm ²	Yield strength Rp0.2N/mm ²	Elongation As%	Brinell hardness HB	Rockwell hardness HRC
GH3030	solid solution	700		30	—	

Characteristic:

High temperature strength: GH3030 wire has excellent high temperature strength and can maintain high mechanical properties in high temperature environments.

Antioxidant properties: It exhibits good antioxidant properties and can resist oxidation and corrosion at high temperatures.

Creep resistance: GH3030 wire has good creep resistance and can withstand long-term continuous loading at high temperatures without deformation.

Anti-corrosion properties: It has good anti-corrosion properties in many corrosive media, including acidic, alkaline and chloride environments.

Advantage:

High temperature adaptability: GH3030 wire can work stably for a long time in extreme high temperature environments and has good high temperature resistance.

Balance of strength and toughness: It can maintain high strength and toughness under high temperature conditions and has good resistance to deformation.

Long life and reliability: Due to its excellent high temperature performance and oxidation resistance, GH3030 wire can extend the service life of equipment and improve system reliability.

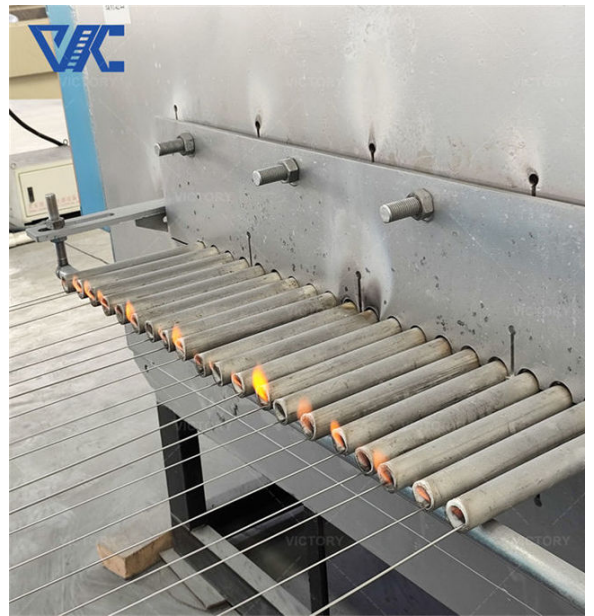
Specific application areas:

Aerospace field: used to manufacture high-temperature components such as combustion chambers, turbine blades, and turbine disks of aerospace engines.

Petrochemical industry: used in high-temperature furnace tubes, reactors, catalyst supports, steam converters and other equipment.

Nuclear industry: fuel elements, control rods, fuel pipelines and other components used in nuclear equipment.

Heat treatment industry: used to manufacture high-temperature stoves, furnace radiant tubes, heating elements and other equipment.



contact us

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Oem service:

Welcome customized size

We are experience factory for OEM&ODM service

Variety specifications and supply status:

It can produce deformed products of various specifications. Bars and ring blanks are delivered without heat treatment; hot-rolled plates, cold-rolled sheets and pipes are supplied after solution and pickling; welding wire is in cold-drawn state, solution and pickling state or semi-hard state and delivered in disc shape; wire for cold heading is delivered in solid solution, pickled state, disc shape or straight strip, solid solution straight strip polished or cold drawn state; pipes are delivered in solid solution, pickled state Delivered in washed state; cold-drawn rods are delivered in annealed, annealed and pickled, annealed and polished or cold-drawn state.

Q&A:

What is the maximum operating temperature of GH3030 wire?

The maximum operating temperature of GH3030 wire depends on the specific application environment and requirements. Generally speaking, it can be used stably for a long time at temperatures up to 1200 degrees Celsius.

What is the antioxidant performance of GH3030 wire in high temperature environments?

GH3030 wire has excellent anti-oxidation properties and can form a dense oxide layer in high temperature environments, effectively protecting its matrix from oxidation and corrosion.

What special environments or specific industries is GH3030 wire suitable for?

GH3030 wire is widely used in aerospace, petrochemical, nuclear industry and other fields. It is often used to manufacture heat-resistant components in high-temperature environments such as aerospace engine components, petrochemical equipment, and nuclear energy equipment.



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