



High Temperature Alloy Semi Hard State Wire GH3044 Wire With Anti Oxidation

Our Product Introduction

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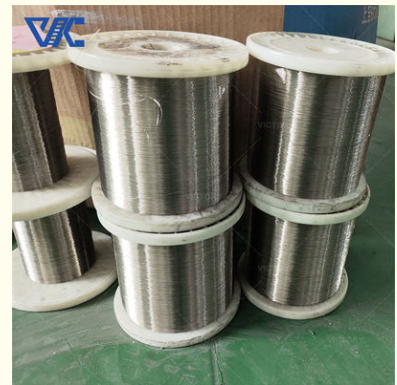
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: GH3044
- 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

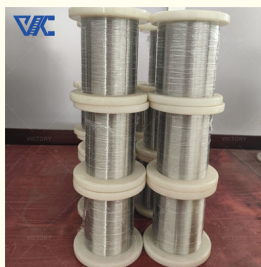


Product Specification

- Product Name: GH3044 Wire
- Material: Nickel Chromium
- Density: 8.89 G/cm³
- Melting Point: 1352~1375°C
- Yield Strength: 850 Mpa
- Tensile Strength: 1050 MPa
- Application: Aviation And Aerospace Engines
- Highlight: High Temperature Alloy GH3044 Wire, Semi Hard State High Temperature Alloy, Anti Oxidation High Temperature Alloy



More Images



Product Description

Introduction:

GH3044 wire is a high temperature alloy wire, also known as Inconel 740H. It is a nickel-based alloy wire with excellent high-temperature strength, corrosion resistance and heat resistance.

The main components of GH3044 wire include nickel (Ni), chromium (Cr), molybdenum (Mo), iron (Fe), vanadium (V), aluminum (Al) 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 good heat resistance, with a high melting point and resistance to thermal oxidation.

GH3044 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, GH3044 wire has demonstrated excellent performance and reliability.

Parameter:

Chemical composition:

Nickel (Ni): about 53-57%

Chromium (Cr): about 18-21%

Molybdenum (Mo): about 8-10%

Iron (Fe): about 4-6%

Physical parameters:

Density: about 8.89 g/cubic centimeter

Melting point: about 1352~1375°C

Yield strength: about 850 MPa

Tensile strength: about 1050 MPa

Coefficient of thermal expansion: approximately 13.9×10^{-6} /degrees Celsius (in the range of room temperature to 100 degrees Celsius)

Corrosion resistance: GH3044 shows good corrosion resistance and has certain resistance to oxidizing and reducing environments.

GH3044 similar brands

ЭИ686, XH60BT, ВЖ90 (Russia)

Chemical Composition (%)														
Brand	C	Si	Mn	S	P	Cr	Co	W	Mo	Ti	Al	Fe	Ni	other
	Less than													
GH3044	0.1	0.8	0.5	0.013	0.013	23.5~26.5		13~16	≤1.5	0.3~0.7	≤0.5	≤4.0	rest	Cu≤0.07

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
GH3044	solid solution	750	—	40	—	

Characteristic:

High temperature strength: GH3044 wire has excellent high temperature strength and can maintain stable mechanical properties in high temperature environments.

Corrosion resistance: It shows good corrosion resistance and has strong resistance to oxidizing and reducing environments.

Heat resistance: GH3044 wire has good heat resistance and can withstand high temperatures and extreme thermal environments.

Specific application areas:

Aerospace: GH3044 wire is widely used in the aerospace field to manufacture aerospace engine components, turbine blades, combustion chambers and high-temperature structural parts.

Energy Industry: It is used in the energy sector, including oil and gas extraction equipment, nuclear power plant components, turbine and generator components, etc.

Chemical industry: GH3044 wire is commonly used in high-temperature reactors, catalysts, steam generators and corrosion-resistant equipment in the chemical industry.



contact us

email:victory@dlx-alloy.com

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service

Related production processes:

Heat treatment system:

The solution treatment temperature of hot-rolled and cold-rolled plates and strips in the supply state is 1120~1160°C, air cooling, and material performance testing is carried out in the supply state.

Variety specifications and status:

We can supply $\delta 4 \sim 14$ mm hot-rolled plates, $\delta 0.5 \sim 4$ mm cold-rolled plates, $\delta 0.1 \sim 0.8$ mm strips, diameter $d 0.3 \sim 10$ mm, $d 20 \sim 300$ mm bars and rings of various diameters. Plate and strip are supplied after solid solution, pickling and trimming; wire is supplied in cold drawing, co-prosperity pickling or semi-hard state, and bars and forgings are supplied without heat treatment.

Smelting and casting processes:

The alloy is smelted using electric arc furnace, non-vacuum induction furnace or vacuum induction furnace + electroslog remelting or vacuum arc remelting process.



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