220v 800w Resistance Wire Heating Element Coil Cr10Ni90 Heating Wire for oven stove

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Cr10Ni90
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Spool package with Carton box, Coil package with polybag for Resistance wire
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Name: NiCr Heating Wire
- Material: Nickel, Chromium
- Nickel(Min): 90%
- Resistivity: 1.09-1.15 μΩ·m
- Operating Temperature: 1150-1250 °C
- Density: 8.2 G/cm³
- Coefficient Of Linear Expansion: 13-15×10^-6/°C
- Tensile Strength: 700-900 Mpa
- Yield Strength: 300-600 Mpa
- Elongation: 20-30%
- Application: Industrial Heating Equipment

More Images

Our Product Introduction

Product Description

Product Description:

Cr10Ni90 heating wire is a high-resistance alloy wire composed of elements such as chromium and nickel. It has high resistance characteristics and high temperature stability and is widely used in various heating equipment and electric furnace heating elements. The heating wire has excellent resistance characteristics and can provide high power and fast heating response. It also has anti-oxidation properties and can remain stable in high-temperature environments. It is widely used in industrial heating equipment, home appliances, laboratory equipment, chemical industry and other fields to meet high-temperature heating needs in different scenarios.

Basic performance:

Chemical composition: Cr10Ni90 heating wire is mainly composed of chromium (Cr) and nickel (Ni). Among them, the chromium content accounts for about 10% of the mass ratio, and the nickel content accounts for about 90% of the mass ratio.

Physical properties: Cr10Ni90 heating wire has a high melting point, usually between 1200-1400 degrees

Celsius. It has good resistivity and is capable of producing proper resistive heating. In addition, the heating wire has a low coefficient of linear expansion, which helps maintain better stability during heating and cooling.
Mechanical properties: Cr10Ni90 heating wire has high tensile strength and yield strength, and can withstand certain mechanical stress. Its elongation is usually low, about 20% at room temperature.

Technical Parameters:

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35
Composición	Ni	90	Rest	Rest	55.0 61.0	34.0 37.0
	Cr	10	20.0 23.0	28.0 31.0	15.0 18.0	18.0 21.0
	Fe		≤1.0	≤1.0	Rest	Rest
Temperatura máxima°C		1300	1200	1250	1150	1100
Punto de fusion °C		1400	1400	1380	1390	1390
Densidad g/cm3		8.7	8.4	8.1	8.2	7.9
Resistividad μΩ·m,20°C		0.76±0.05	1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05
Alargamiento a la ruptura		≥20	≥20	≥20	≥20	≥20
Calor especifico J/g.°C			0.44	0.461	0.494	0.5
Conductividad térmica KJ/m.h°C			60.3	45.2	45.2	43.8
Coeficiente de expansión de líneas a×10-6/(20 1000°C)			18	17	17	19
Estructura micrográfica			Austenite	Austenite	Austenite	Austenite
Propiedades magnéticas			Nonmagnetic	Nonmagnetic	Nonmagnetic	Weak magnetic

Form	Specification	
Wire	Diameter=0.025mm~8mm	
Flat wire	Width=0.40~6.0mm	Thick=0.03~0.50mm
Strip	width=8~250mm	Thick=0.05~3.0mm
Bar	Diameter=8~100mm	Long=50~1000

Service:
We provide comprehensive nickel-chromium alloy technical support and services to ensure the normal operation of our customers' products. Our experienced technical team will provide customers with various services such as installation, maintenance, troubleshooting, and answer any questions they may have about the product. We also provide customized solutions, designing and manufacturing nickel-chromium alloy products according to customer needs.

contact us
email:victory@dlx-alloy.com
Oem service:
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Main feature:
High resistance characteristics: Cr10Ni90 heating wire has a high resistivity and can provide a relatively high

resistance value, which is suitable for heating scenarios that require larger power.
High temperature stability: It can maintain excellent stable performance in high temperature environments, with a maximum operating temperature of up to 1100°C.
Fast heating response: Due to its high resistance characteristics, Cr10Ni90 heating wire can heat up quickly and provide efficient heating effect.
Antioxidant performance: Under high temperature conditions, it forms a dense oxide protective film, effectively preventing further oxidation reactions and extending service life.

Application:

Industrial heating equipment: used in various industrial electric furnaces, hot blast stoves, ovens and other heating elements to provide uniform and stable high-temperature heating effects.
Home appliance field: used in heating elements of electric water heaters, electric stoves, electric heating tubes and other household appliances to provide fast and efficient heating functions.
Laboratory equipment: Heating equipment, test furnaces, etc. used in laboratories to provide reliable heating control and stability.
Chemical industry: Suitable for heating elements in chemical reactors, evaporators and other equipment to meet specific chemical process needs.
All in all, Cr10Ni90 heating wire is an alloy wire with high resistance characteristics and high temperature stability. It is widely used in industrial heating equipment, home appliances, laboratory equipment, chemical industry and other fields to meet high-temperature heating needs in different scenarios.

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