



Cr20Ni30 Heating Wire Heating Element Coil Wire For Furnace Oven Stove

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS, ISO 9001
- Model Number: Cr20Ni30
- 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

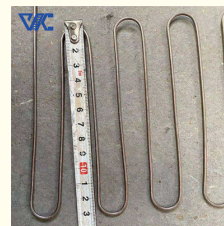


Product Specification

- Name: NiCr Heating Wire
- Material: Nickel, Chromium
- Nickel(Min): 30%
- Resistivity: 1.10-1.15 $\mu\Omega\cdot m$
- Operating Temperature: 1100-1200 $^{\circ}C$
- Density: 7.9 G/cm³
- Coefficient Of Linear Expansion: $13-15 \times 10^{-6}/^{\circ}C$
- Tensile Strength: 650-850 Mpa
- Yield Strength: 250-450 Mpa
- Elongation: 25-35%
- Application: Industrial Heating Equipment
- Highlight: Coil Wire Heating Wire, Furnace Oven Stove Heating Wire, Cr20Ni30 Heating Wire



More Images



Product Description

Product Description:

When it comes to heating equipment and systems, Cr20Ni30 heating wire is a popular choice. It is a nickel-chromium alloy with a composition of 20% chromium and 30% nickel. This alloy exhibits excellent performance and reliability in a variety of applications.

Cr20Ni30 heating wire is known for its excellent heating capabilities. It can quickly generate high temperatures, reaching a maximum use temperature of 1100-1200 degrees Celsius. This makes it ideal for applications requiring rapid heating, such as household appliances, industrial heating equipment and laboratory equipment. In addition to high temperature performance, Cr20Ni30 heating wire also has good resistance characteristics. It has moderate resistivity and can efficiently convert electrical energy into thermal energy to achieve efficient heating effects. In addition, the heating wire also exhibits a low linear expansion coefficient and good mechanical strength, allowing it to maintain stability and reliability under high temperature and mechanical stress environments.

The wide range of applications of Cr20Ni30 heating wire include electric water heaters, ovens, dryers, laboratory

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heating equipment, etc. It is widely adopted to provide efficient and reliable heating solutions for these devices.

Basic performance:

Chemical composition: Cr20Ni30 heating wire is mainly composed of chromium (Cr) and nickel (Ni). Among them, the chromium content accounts for about 20% of the mass ratio, and the nickel content accounts for about 30% of the mass ratio.

Resistivity: approximately 1.10-1.15 $\mu\Omega\cdot m$.

Maximum Operating Temperature: usually reaches about 1100-1200 degrees Celsius.

Density: approximately 7.9 g/cm³.

Coefficient of Linear Expansion: approximately $13-15 \times 10^{-6}/\text{degrees Celsius}$.

Tensile Strength: Usually about 650-850 MPa.

Yield Strength: Usually about 250-450 MPa.

Elongation: usually about 25-35%.

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 $\mu\Omega\cdot m, 20^\circ C$		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 específico 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 $\alpha \times 10^{-6}/(20-1000^\circ C)$			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.



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Oem service:
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Main feature:

Medium resistance characteristics: Cr20Ni30 heating wire has moderate resistivity, can provide suitable resistance value, and is suitable for heating needs in the medium temperature range.
Corrosion resistance: The heating wire has good corrosion resistance and can resist some common corrosive media, such as water, acid and alkali, etc., extending the service life of the heating wire.
Stable heating performance: Cr20Ni30 heating wire can provide stable heating effect within a moderate temperature range, maintain constant heating power, and is suitable for various heating applications.
Lower thermal capacitance: Due to lower thermal capacitance, Cr20Ni30 heating wire has fast heating and cooling response speed and can provide efficient heating effect.

Application:

Home appliances: Cr20Ni30 heating wire is commonly used in home appliances, such as electric water heaters, electric heating tubes, electric furnaces, etc. It can provide fast and even heating effect to meet the heating needs of household equipment.
Industrial heating equipment: This heating wire is suitable for heating equipment in the industrial field, such as drying equipment, heaters, hot blast furnaces, etc. It can provide stable heating effect in the medium temperature range and meet the heating needs in industrial production.
Laboratory and scientific research equipment: Cr20Ni30 heating wire is commonly used in testing equipment, thermal analysis instruments and other heating applications in laboratories and scientific research fields. It can provide stable heating performance and meet the requirements of experiments and research.

In short, Cr20Ni30 heating wire is a reliable and efficient heating element with good performance and stability. It is widely used in many fields to provide high-temperature heating solutions for various heating equipment.



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