



High Temperature NiCr Alloy Cr20Ni80 Heating Resistant Wire For Extreme Temperature Conditions

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE
- Model Number: Cr20Ni80
- Minimum Order Quantity: 5
- 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

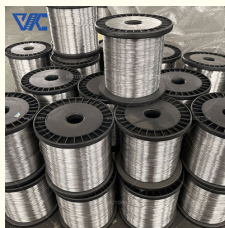


Product Specification

- Material: Nickel, Chromium
- Nickel(Min): 89%
- Tensile Strength: 637MPA
- Magnetic Permeability: 0.78+/-0.05
- Elongation: ≥20%
- Application: Heating, Resistivity
- Condition: Hard / Soft
- Surface: Bright, Oxided, Acide
- Delivery Time: 7-20 Days
- Name: NiCr Alloy Wire
- Highlight: NiCr Alloy Cr20Ni80, Cr20Ni80 Heating Resistant Wire, High Temperature NiCr Alloy



More Images



Product Description

High Temperature NiCr Alloy Cr20Ni80 Heating Resistant Wire For Extreme Temperature Conditions Product Description:

Cr20Ni80 alloy wire is a high-temperature resistance alloy wire whose main components are 20% chromium and 80% nickel. It has excellent high temperature resistance and can maintain stable resistance characteristics in high temperature environments. This alloy wire is widely used in industrial heating, electric furnace heating, glass heating and other fields.

Application:

Cr20Ni80 alloy wire is widely used in many fields due to its special properties and chemical composition. Here are some common application areas:

1. Resistance heater: Cr20Ni80 alloy wire is widely used in the field of resistance heaters to manufacture electric

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heating wires, electric heating tubes and electric heating elements. It has good high temperature resistance, can be heated quickly at high temperatures, and is used to heat media such as air, liquids and solids.



2. Industrial heaters: Cr20Ni80 alloy wire is also commonly used in various industrial heaters, including hot blast furnaces, heat treatment equipment, dryers, furnaces and heat exchangers. Its high temperature stability and corrosion resistance make it an ideal heating element material.

3. Temperature sensor: Since the resistance value of Cr20Ni80 alloy wire changes with temperature, it is often used as a material for temperature sensor elements. Based on the principle of resistance measurement, the temperature change can be determined by measuring the resistance value of Cr20Ni80 alloy wire.

4. Resistance wire: Cr20Ni80 alloy wire can also be used to make various resistance wires for applications such as resistors, electronic components and circuits. By controlling the length and cross-sectional area of the alloy wire, the resistance value of the resistance wire can be adjusted to meet specific circuit requirements.

5. Experiments and research: Due to its stability and controllability, Cr20Ni80 alloy wire is widely used in laboratory research, academic research and development fields. It can be used to simulate high temperature environments, electrothermal experiments and material performance testing, etc.

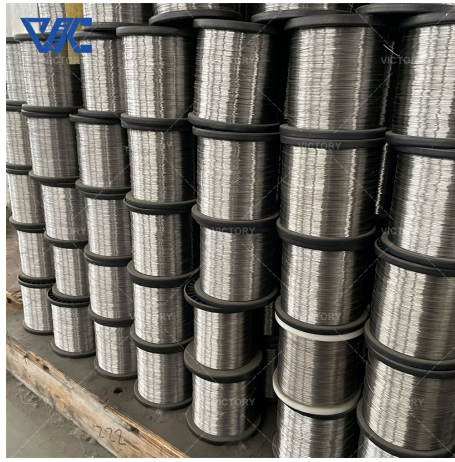
Technical Parameters:

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 fusión °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 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 α×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 are committed to ensuring that our customers are satisfied with their purchases and building a good relationship. To this end, we provide comprehensive nickel-chromium alloy technical support and services. 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. In addition, we also provide customized solutions to design and manufacture nickel-chromium alloy products according to customer needs. Through timely support and professional service, we ensure that our customers' products can operate normally.



contact us
email: victory@dlx-alloy.com

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

Size dimension range:

Wire: 0.01-10mm
Ribbons: 0.05*0.2-2.0*6.0mm
Strip: 0.05*5.0-5.0*250mm
NiCr series: Cr20Ni80, Cr30Ni70, Cr15Ni60, Cr20Ni35, Cr20Ni30

Packing:

Sturdy cardboard boxes are used for packaging NiCr Alloy.
Each box has dimensions of approximately 26 cm (length) x 26 cm (width) x 30 cm (height).
The boxes are designed to provide protection to the contents during transportation.
A plastic wrap is used to seal the boxes, ensuring that the contents are shielded from dust and moisture.
The boxes are labeled with important information, including the product name, quantity, and destination.

FAQ :

What is the heat resistance of Cr20Ni80 alloy wire?

Cr20Ni80 alloy wire has good heat resistance and can operate stably for a long time in high temperature environments without failure.

Can the resistance of Cr20Ni80 alloy wire be customized?

Yes, we can customize the resistance of Cr20Ni80 alloy wire according to customer requirements to meet specific application needs.

What is the surface finish of Cr20Ni80 alloy wire?

The surface of Cr20Ni80 alloy wire usually has a high smoothness to ensure good electrical conductivity and appearance quality.



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