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High Temperature Electric Resistance Cr20Ni35 Furnace Heating Wire For **Chemical Industry**

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asic Information	
Place of Origin:	China
Brand Name:	Victory
Certification:	CE,ROHS,ISO 9001
Model Number:	Cr20Ni35
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): 	35%	
 Resistivity: 	1.04-1.10 μΩ·m	
Operating Temperature:	1100-1200 °C	
 Density: 	7.9 G/cm ³	
 Coefficient Of Linear Expansion: 	13-15×10^-6/°C	
 Tensile Strength: 	650-850 Mpa	
 Yield Strength: 	250-450 Mpa	
 Elongation: 	25-35%	
 Application: 	Industrial Heating Equipment	
 Highlight: 	High Temperature Furnace Heating Wire, Cr20Ni35 Furnace Heating Wire, Chemical Industry Furnace Heating Wire	

More Images



Product Description

Product Description:

Our Product Introduc

Cr20Ni35 is a common nickel-chromium alloy heating wire, which is widely used in various heating equipment and fields. It is composed of approximately 20% chromium (Cr) and 35% nickel (Ni) and has good resistance characteristics and high temperature stability.

Cr20Ni35 heating wire is suitable for household appliances, industrial heating equipment, laboratory equipment and other fields. It can generate high temperatures quickly and has stable heating performance. The maximum operating temperature can reach 1100-1200 degrees Celsius, which is suitable for applications requiring high temperature heating.

The heating wire has moderate resistivity and can effectively convert electrical energy into heat energy. It also has a low coefficient of linear expansion and good mechanical strength, allowing it to maintain stability and reliability under high temperatures and mechanical stress.

Cr20Ni35 heating wires are available in a wide range of diameters, and the appropriate diameter can be selected according to the needs of the specific application. It is widely used in various heating systems such as for more products please visit us on victory-alloy.com

Basic performance:

Chemical composition: Cr20Ni35 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 35% of the mass ratio. Resistivity: approximately 1.04-1.10 $\mu\Omega$ ·m.

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

Density: approximately 7.9 g/cm³.

Coefficient of Linear Expansion: approximately 13-15×10^-6/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
	Ni	90	Rest	Rest	55.0 61.0	34.0 37.0
Composición	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	Nonmagneti c	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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Main feature:

High resistance characteristics: Cr20Ni35 heating wire has high resistivity and can provide appropriate resistance value to meet the power requirements required by the heating equipment. Corrosion resistance: The heating wire has good corrosion resistance and can resist the erosion of common corrosive media such as water, acid, alkali, etc., extending its service life. High temperature stability: Cr20Ni35 heating wire can maintain stable performance in high temperature

environments, has a high maximum operating temperature, and is suitable for high temperature heating needs. Fast heating response: Due to the low thermal capacity, Cr20Ni35 heating wire has a fast heating response speed and can quickly provide the required heating effect.

Application:

Industrial heating equipment: Cr20Ni35 heating wire is widely used in industrial heating equipment such as heat treatment furnaces, drying equipment, and smelting furnaces to meet high-temperature heating needs. Home appliances: This heating wire can also be used in the field of home appliances, such as electric water heaters, electric heating tubes, electric furnaces, etc., to provide fast and uniform heating effects. Laboratory and scientific research equipment: Cr20Ni35 heating wire is commonly used in heating applications such as testing equipment and thermal analysis instruments in laboratories and scientific research fields to provide precise heating control.

In short, Cr20Ni35 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.

Q&A:

What is the difference between Cr20Ni35 heating wire and Cr20Ni80 heating wire? Cr20Ni35 heating wire has a higher nickel content, lower resistivity and higher maximum operating temperature, making it suitable for heating needs in high-temperature environments. The Cr20Ni80 heating wire has a lower nickel content and is suitable for heating needs in the general home appliance field.

In which industrial applications is Cr20Ni35 heating wire common?

Cr20Ni35 heating wire is commonly used in industrial heating equipment such as heat treatment furnaces, drying equipment, and smelting furnaces to provide high-temperature heating effects.

What is the corrosion resistance of Cr20Ni35 heating wire?

Cr20Ni35 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.

