



Boost Your Business With Nichrome Alloy Cr20Ni80 Wire For Industrial Applications

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

- Applications: Heating Elements, Furnaces, Electrical Components
- Nickel(Min): 77%
- Elongation: $\geq 20\%$
- Melting Point: 1400-1450°C
- Electrical Resistivity: 1.1-1.2 $\mu\Omega\text{m}$
- Resistivity: 1.09+/-0.05
- Tensile Strength: 637MPA
- Hardness: HV400-500
- Thermal Conductivity: 15-20 W/mK
- Name: NiCr Alloy
- Highlight: Cr20Ni80 Nichrome Alloy Wire, Industrial Cr20Ni80 Wire, 77% Min Nickel Nichrome Alloy



More Images



Product Description

Boost Your Business With Nichrome Alloy Cr20Ni80 Wire For Industrial Applications Introduction:

Cr20Ni80 alloy wire is a commonly used nickel-chromium alloy wire, also known as NiCr 80/20 alloy wire.

1. Composition: The chemical composition of Cr20Ni80 alloy wire mainly contains 20% chromium and 80% nickel. This alloy wire has a high nickel content, giving it good resistance to high temperatures and corrosion.
2. High temperature performance: Cr20Ni80 alloy wire can work stably in high temperature environments. It has a high melting point and good oxidation resistance, and can withstand high temperature environments in high temperature heating and heating element applications, with a maximum use temperature of up to 1200 degrees Celsius.
3. Resistivity: Cr20Ni80 alloy wire has moderate resistivity, making it a commonly used resistance wire material.

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Its resistivity is usually in the range of 1.09-1.12 $\mu\Omega\cdot m$ and can be adjusted as needed.



4. Mechanical properties: Cr20Ni80 alloy wire has good mechanical properties, including strength and ductility. It can be plastically deformed and adjusted through cold working and heat treatment. Common processing techniques include drawing, rolling and bending.

5. Corrosion resistance: Cr20Ni80 alloy wire shows good corrosion resistance in common acid and alkali media. It can resist corrosion by acids and alkalis of general concentrations, but it still needs to be used with caution in special corrosive media.



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

Application fields:

Due to its high temperature performance and corrosion resistance, Cr20Ni80 alloy wire is widely used in industrial heaters, electric furnace heating elements, hot blast furnaces, resistance heaters, heat treatment equipment and other fields. It is also used to make electric heating elements such as resistance wires, heating wires, and electric heaters.

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. We are committed to ensuring customers are satisfied with their purchases, providing timely support and building great relationships.



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

FAQ:

Can we provide customized solutions for Cr20Ni80 alloy wire?

Yes, we can customize Cr20Ni80 alloy wire according to your needs to meet specific application and technical specifications.

What is the chemical composition of Cr20Ni80 alloy wire?

The chemical composition of Cr20Ni80 alloy wire is approximately 20% chromium (Cr) and 80% nickel (Ni).

What is the diameter range of Cr20Ni80 alloy wire?

The diameter range of Cr20Ni80 alloy wire can be customized according to needs, usually ranging from a few microns to a few millimeters.



Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu