



Wholesale Price Bright Color Nichrome Alloy Cr20Ni80 Wire For Electrical Heating Elements

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

- Thermal Expansion: 13-17 $\mu\text{m/mK}$
- Density: 8.4 G/cm³
- Chemical Composition: Ni-Cr-Fe
- Electrical Resistivity: 1.1-1.2 $\mu\Omega\text{m}$
- Yield Strength: 200-300 MPa
- Hardness: HV400-500
- Melting Point: 1400-1450°C
- Applications: Heating Elements, Furnaces, Electrical Components
- Highlight: 0.50mm Nichrome Alloy,
0.03mm Nichrome Alloy,
High Resistivity nichrome alloy wire



More Images



Product Description

Product Description:

The Properties and Uses of Nichrome Wire

Nichrome wire is a type of alloy composed primarily of nickel, chromium, and iron; a key property of this alloy is its **high resistivity**. This means that it is able to resist the flow of electrical current, while its **good oxidation resistance** allows it to withstand high temperatures and prevents it from corroding over time. Additionally, nichrome wire is known for its **excellent ductility**, allowing it to be easily shaped and formed into various shapes and sizes. It is also **easy to weld**, making it suitable for larger structures. Nichrome wire is widely used in a variety of applications, including the manufacture of heating elements for laboratory and industrial electric furnaces, heat guns, industrial hair dryers, water heating systems, high-

Our Product Introduction

value electrical resistors, heating cords, and cables.
In conclusion, nichrome wire is an ideal material for industries which require high-temperature resistance, electrical resistance, and ductility. Its versatility and reliability make it an essential part of many different applications.

Features:

Product Name: Nichrome Alloy -----
Melting Point: 1400-1450°C
Density: 8.4 G/cm3
Hardness: HV400-500
Applications: Heating Elements, Furnaces, Electrical Components

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 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

Support and Services:

Nichrome Alloy Technical Support and Service

We provide technical support and service for Nichrome Alloy products and its related accessories. Our team of experts are available 24/7 to answer any questions you may have. We will provide you with comprehensive information about the usage and maintenance of Nichrome Alloy products. We also offer online tutorials and troubleshooting services to help you get the most out of your Nichrome Alloy products. Our customer service representatives are always available to help you with any problems or concerns you may have.

We understand that your Nichrome Alloy products are important to you, so we make sure that our service is fast, efficient, and reliable. We offer free shipping on all orders and our products come with a full warranty. We also provide periodic updates and maintenance services to keep your Nichrome Alloy products functioning properly.

If you have any questions about our Nichrome Alloy products or services, please do not hesitate to contact us. We are here to help you get the most out of your Nichrome Alloy products.



Shape	Size(mm)
Wire	0.05-7.5
Rod	8-50
Ribbon	(0.05-0.35)*(0.5-6.0)
Strip	(0.5-2.5)*(5-40)



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