



Factory Price Nichrome Heater Alloy Cr20Ni80 Cr15Ni60 Electric Resistance Wire

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
- Melting Point: 1400-1450°C
- Electrical Resistivity: 1.1-1.2 $\mu\Omega\text{m}$
- Yield Strength: 200-300 MPa
- Hardness: HV400-500
- Thermal Conductivity: 15-20 W/mK
- Elongation: 20-30%
- Name: Nichrome Alloy
- Highlight: High Hardness nichrome high temp wire, Cr20Ni80 nichrome high temp wire, nichrome resistor wire



More Images



Our Product Introduction

Product Description

Product Description:

Nichrome wire is a type of alloy composed primarily of nickel, chromium, and iron. It stands out because of its **high resistivity and good oxidation resistance** - the ability to resist the flow of electrical current as well as withstand high temperatures and prevent corrosion. Additionally, it is highly ductile and weldable, meaning it can easily be shaped and formed into different sizes and welded together to form larger structures.

Due to these traits, nichrome wire is widely used to manufacture laboratory and industrial electric furnaces and electrical devices reliant on thermal action, such as heat guns and hair dryers. It can also be found in water heating systems, high-value electrical resistors, heating cords, and cables.

In conclusion, nichrome wire is a versatile and reliable material, making it suitable for a variety of applications requiring **high-temperature resistance, good electrical resistance, and ductility**. It is an

essential component in many industries and continues to be a popular choice.

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 a×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

Applications:

Nichrome alloy, also known as Victory alloy, is a type of Cr20Ni80 alloy. It offers a wide range of applications, such as nichrome coil, nichrome heating elements, nichrome electric wire, and other electrical components. Nichrome alloy is non-magnetic, has a density of 8.4 g/cm3, and a electrical resistivity of 1.1-1.2 μΩm. It also boasts a tensile strength of 400-500 MPa, and a chemical composition of Ni-Cr-Fe. Nichrome alloy is a trusted and reliable product due to its certification from CE. It is offered in a minimum order quantity of 5, and is packaged in spool package with carton box or coil package with polybag for resistance wire.

Victory alloy is able to provide a fast delivery time of 5-21 days, and is available for payment with L/C, T/T, Western Union, MoneyGram. It can supply up to 300 tons per month.

Nichrome alloy is widely used for its excellent performance in a variety of industrial and commercial applications, such as in thermostats, electric blankets, toasters, ovens, electric griddles, and other electric heating appliances. It can also be used in industrial furnaces, laboratory heating elements, and other high temperature applications.



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)





Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

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