Basic Information

• Place of Origin: China • Brand Name: Victory • Certification: CE Cr20Ni80 Model Number: • Minimum Order Quantity: 3.5

• Price: 5-100kg, \$20-\$30

Packaging Details:

Spool package with Carton box, Coil package with polybag for Resistance wire

Delivery Time: 5-20 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: ≥20% 1400-1450°C Melting Point: • Electrical Resistivity: $1.1\text{-}1.2~\mu\Omega m$ Resistivity: 1.09+/-0.05 637MPA • Tensile Strength: • Hardness: HV400-500 • Thermal Conductivity: 15-20 W/mK Name: NiCr Alloy

Highlight: Nichrome 8020 Electric Resistance Wire,

Ni80cr20 Electric Resistance Ribbon Ni80cr20 Nickel Chromium Wire



More Images









Product Description

Nickel Chromium Ni80cr20/ nichrome 8020 Electric Resistance Wire and Ribbon for heating element

Introduction:

1. Ni80Cr20 wire, also known as Nichrome 80/20 wire, is an alloy made of 80% nickel and 20% chromium. It is a type of resistance wire known for its high electrical resistance and excellent oxidation resistance at elevated temperatures. Ni80Cr20 wire is widely used in heating elements, resistors, and various electrical applications due to its stability, durability, and ability to withstand high temperatures. It is a versatile material that is suitable for a wide range of industrial and commercial applications where reliable heating elements are required.



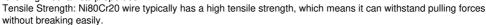
2. Nichrome wire, such as Ni80Cr20 wire, finds applications in various industries and products due to its unique properties. Some common applications of Nichrome wire include:

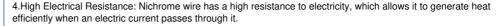
Heating Elements: Nichrome wire is widely used in heating elements for electric ovens, toasters, space heaters, industrial furnaces, and other heating appliances due to its high electrical resistance and ability to generate heat efficiently.

Resistors: It is used in resistors for regulating electrical current and voltage in electronic circuits.

Industrial Furnaces: Nichrome wire is used in industrial furnaces for high-temperature applications due to its excellent oxidation resistance and durability at elevated temperatures.

3.Mechanical properties of ni80cr20 wire Ni80Cr20 wire, also known as Nichrome 80/20, has the following mechanical properties:





5. Stable at High Temperatures: Nichrome wire can withstand high temperatures without melting or deforming, making it suitable for use in heating elements and other high-temperature applications.

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35
1 S. Torridioc Haterial		Circino	CIZOIIIOO	Grootur o	Ol lollion	0.201.00
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 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		

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

Are you a manufactuer?

Yes, we are the factory and mailny produce heating resistance alloy wire, like Fecral/Nichrome material.

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