



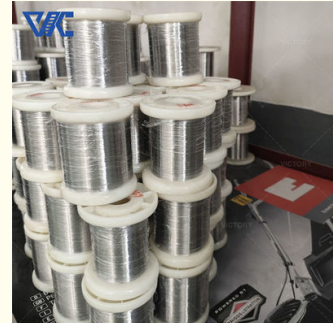
## Ni80cr20/ Nikrothal Nichrome 80 Heating Resistance Flat / Ribbon Wire For Resistor

Our Product Introduction

for more products please visit us on [victory-alloy.com](http://victory-alloy.com)

### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO9001
- Model Number: Cr20Ni80
- 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:  $\geq 20\%$
- 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: Resistor Ni80cr20 Heating Resistance Wire, Ni80cr20 Heating Resistance Flat Wire, Nichrome 80 Resistance ribbon Wire



### More Images



### Product Description

#### Ni80cr20/Nikrothal Nichrome 80 Heating Resistance Flat/ribbon Wire For Resistor

1. Names of Ni80Cr20(Nikrothal 8,MWS-650,NiCrA,Tophet A,HAI-NiCr 80,Chromel A,Alloy A,Alloy 650,N8,Resistohm 80, Stablohm 650,Nichorme V,Nikrothal 80.)

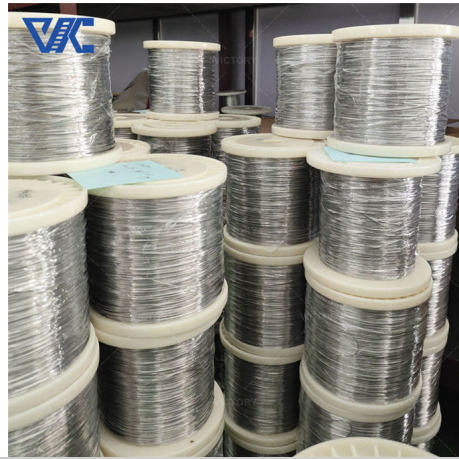
2. Nichrome ribbon wire is a type of Nichrome wire that is flat and wide, resembling a ribbon. This form of Nichrome wire is commonly used in applications where a wider surface area is needed for heat distribution or specific design requirements. The flat shape of the ribbon wire allows for efficient heat transfer and uniform heating, making it suitable for various heating elements in appliances and industrial equipment

3. 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.

Our Product Introduction

4. High Electrical Resistance: Nichrome wire has a high resistance to electricity, which allows it to generate heat efficiently when an electric current passes through it.

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
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 <sup>-6</sup> /(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

#### 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**  
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Oem service:  
Welcome customized size  
We are experience factory for OEM&ODM service

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**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

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**FAQ:**

**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.



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