



## Nickel Alloy Nichrome Cr20Ni80 80/20 NiCr Electric Heating Alloy 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

- Material: Nickel, Chromium
- Nickel(Min): 77%
- Resistivity: 1.09+/-0.05
- Tensile Strength: 637MPA
- Elongation: ≥20%
- Application: Heating, Resistivity
- Condition: Hard / Soft
- Surface: Bright, Oxided, Acide
- Delivery Time: 7-20 Days
- Name: Resistance Wire
- Highlight: **Cr20Ni80 nichrome spring wire, Nikrothal 80 nichrome spring wire, nichrome wire spring**



### More Images



### Product Description

Nichrome Wire, also known as Cr20Ni80, is a popular heating alloy that is highly resistant to high temperatures, with a maximum operating temperature of 900C (1652F). What sets Nichrome apart from other heating alloys is its ability to withstand high temperatures without becoming brittle. This is due to its high-purity nickel-chromium resistance alloy composition, which contains a very high nickel content.

One of the key benefits of Nichrome is its excellent thermal efficiency, which allows for even heating and safe use. Additionally, it has a long service life, making it a cost-effective option for many industries.

Nichrome is widely used in the manufacturing of generator load resistors and other heating elements due to its excellent strength, oxidation resistance, and thermal stability. It is particularly useful in high temperature furnaces used in the heat treating, ceramics, glass, steel, and electronic industries.

Overall, Nichrome Wire is a reliable and versatile heating alloy that can withstand extreme temperatures while maintaining its strength and durability. Its unique properties make it an ideal choice for a wide variety of industrial

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applications.

**Size dimension range:**

**Wire:** 0.01-10mm

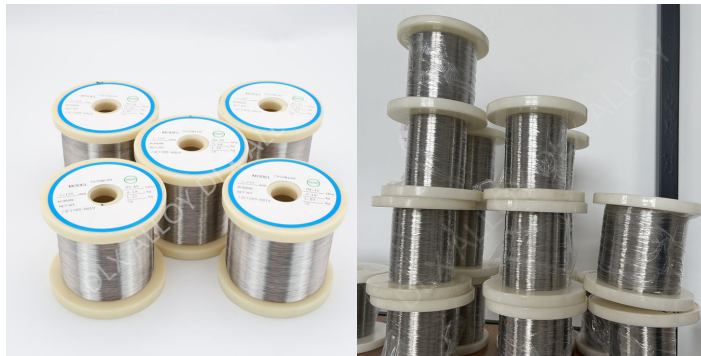
**Ribbons:** 0.05\*0.2-2.0\*6.0mm

**Strip:** 0.05\*5.0-5.0\*250mm

**NiCr series:** Cr20Ni80, Cr30Ni70, Cr15Ni60, Cr20Ni35, Cr20Ni30

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



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