



## High Quality Resistance Alloy Nichrome 80/20 Nicr 60/15 Nichrome 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

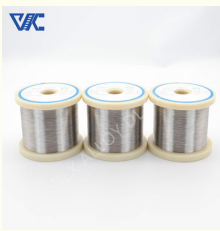


### Product Specification

- Electrical Resistivity: 1.1-1.2  $\mu\Omega\text{m}$
- Forms: Wire, Sheet, Strip, Rod, Tube
- Applications: Heating Elements, Furnaces, Electrical Components
- Tensile Strength: 400-500 MPa
- Thermal Conductivity: 15-20 W/mK
- Chemical Composition: Ni-Cr-Fe
- Name: Nichrome Alloy
- Corrosion Resistance: Excellent
- Highlight: **Non Magnetic Nichrome Alloy, Nichrome Alloy 0.03mm, Industrial nichrome wire coil**



### More Images



### Product Description

#### Product Description:

#### Nichrome Wire: A Versatile and Reliable Material

Nichrome wire is an alloy composed primarily of nickel, chromium, and iron. Its key properties include high resistivity and good oxidation resistance. This resistance to current flow and oxidation makes nichrome wire ideal for applications that require thermal action, such as industrial electric furnaces and heat guns. Nichrome wire is also known for its excellent ductility and weldability, meaning that it can be easily formed and welded together to create components of different shapes and sizes. The versatility and reliability of nichrome wire have earned it numerous uses in industries such as water heating, electrical resistors, and electronics. Nichrome wire is also widespread in common items, like heating cords and cables. Overall, nichrome wire is a reliable and indispensable material for many industries that require high-temperature resistance, electrical resistance, and strong ductility.

Our Product Introduction

**Features:****Product Name:** Nichrome Alloy**Applications:** Heating Elements, Furnaces, Electrical Components**Alloy Composition:** Cr20Ni80 (Nichrome)**Yield Strength:** 200-300 MPa**Melting Point:** 1400-1450°C**Electrical Resistivity:** 1.1-1.2  $\mu\Omega\text{m}$ **Corrosion Resistance:** Excellent

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35	Cr20Ni80
Composition	Ni	90	Rest	Rest	55.0~61.0	34.0~37.0	30.0
	Cr	10	20.0~23.0	28.0~31.0	15.0~18.0	18.0~21.0	18.0
	Fe		≤1.0	≤1.0	Rest	Rest	Rest
Maximum temperature °C		1300	1200	1250	1150	1100	1100
Melting point °C		1400	1400	1380	1390	1390	1400
Density g/cm3		8.7	8.4	8.1	8.2	7.9	8.0
Resistivity at 20°C( $\mu\Omega\cdot\text{m}$ )			1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05	1.04
Elongation at rupture		≥20	≥20	≥20	≥20	≥20	≥20
Specific heat J/g. °C			0.44	0.461	0.494	0.5	0.5
Thermal conductivity KJ/m.h °C			60.3	45.2	45.2	43.8	45
Coefficient of lines expansion $\alpha \times 10^{-6}/(20 \sim 1000^\circ\text{C})$			18	17	17	19	18
Micrographic structure			Austenite	Austenite	Austenite	Austenite	Austenite
Magnetic properties			Non-magnetic	Non-magnetic	Non-magnetic	Weak magnetic	Weak magnetic



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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