

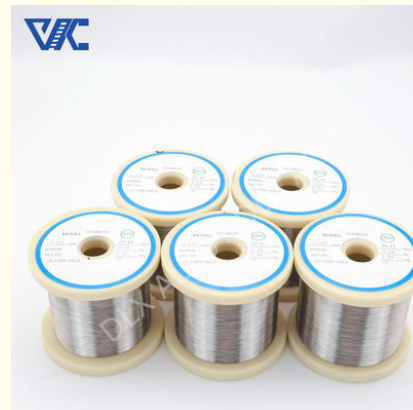


Nichrome NiCr Alloy Cr10Ni90 Ni90 Electric High Corrosion Heating Resistance Wire

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO
- Model Number: Ni90Cr10
- Minimum Order Quantity: 3 KGS
- Price: 3 - 500 kgs \$36-\$45
- Packaging Details: Wooden Case
- Delivery Time: 21-36 working days
- Payment Terms: L/C, T/T, D/A
- Supply Ability: 10 Tons Per Month



Product Specification

- Material: Nickel, Chromium
- Surface: Bright/Acid White/Oxidized
- Density: 8.70 G/cm³
- Resistivity: 0.76±0.05
- Elongation At Rupture: ≥20%
- Max Working Temperature: 1300°C
- Melting Point: 1400°C
- MOQ: 2-5KGS
- Lead Time: 15-35 Days After Order Confirm
- Highlight: **Ni90 Nichrome Alloy, High Corrosion Nichrome Alloy, Cr10Ni90 Nichrome Alloy**



More Images



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Product Description

Nichrome NiCr Alloy Cr10Ni90 Ni90 Electric High Corrosion Heating Resistance Wire With Factory Price

Nichrome wire is a nickel-chromium alloy that typically contains around 80-90% nickel and 10-20% chromium. The specific composition can vary slightly depending on the manufacturer, but the key alloying elements are nickel and chromium.

Nichrome wire is widely used for its high electrical resistance, excellent oxidation resistance, and ability to withstand high temperatures. It is commonly found in applications such as:

1. Heating elements:

Nichrome wire is extensively used in the manufacture of heating elements for various appliances and equipment, such as:
Electric heaters, space heaters, and baseboard heaters
Ovens, toasters, and other kitchen appliances
Industrial furnaces, kilns, and heat treatment equipment

2. Resistance heating:

Nichrome's high electrical resistance makes it suitable for use in resistance heating applications, such as:
Electric heating tapes and cables
Resistance welding equipment
Heating components in electronic devices

3. Thermal sensors and controls:

Nichrome's resistance-temperature relationship can be used in the design of thermal sensors and controls, such as:
Thermocouples and resistance temperature detectors (RTDs)
Thermal switches and thermostats

4. Heating coils and elements:

Nichrome wire is commonly used to construct heating coils and elements for various applications, including:
Water heaters, immersion heaters, and steam generators
Hot plates, griddles, and other cooking equipment
Industrial drying and curing ovens

5. Industrial and laboratory equipment:

Nichrome's high-temperature and corrosion-resistant properties make it suitable for use in:
Laboratory equipment, such as hot plates, stirrers, and furnaces
Chemical processing equipment, including reactors and distillation columns
Aerospace and automotive applications, where high-performance heating is required

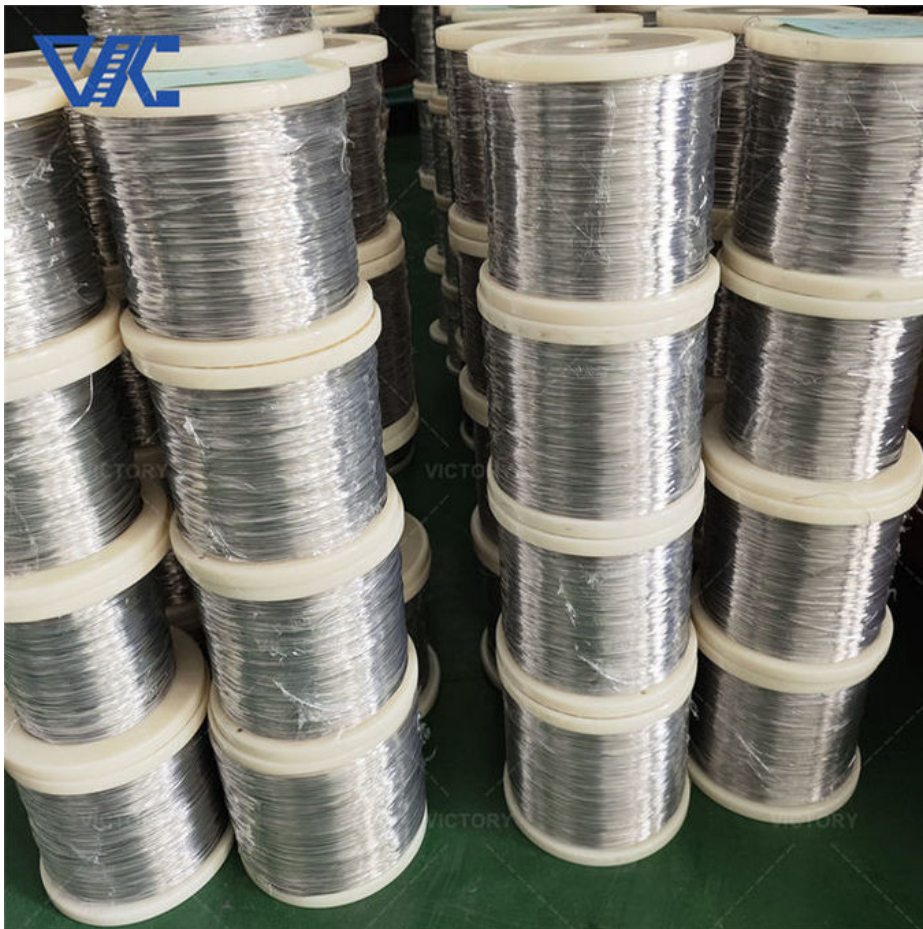
6. Specialty applications:

Nichrome wire can also be found in:
Resistors and rheostats for electronic circuits
Heating elements in cigarette lighters and other ignition devices
Heating components in medical and scientific instrumentation

The versatility and reliable performance of Cr10Ni90 (Nichrome) wire make it a widely used material in a diverse range of heating and resistance-related applications across various industries.

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35	Cr20Ni30
Composition	Ni	90	Rest	Rest	55.0 61.0	34.0 37.0	30.0 34.0
	Cr	10	20.0 23.0	28.0 31.0	15.0 18.0	18.0 21.0	18.0 21.0
	Fe		≤1.0	≤1.0	Rest	Rest	Rest
Max. temperature(°C)		1300	1200	1250	1150	1100	1100
Melting Point °C		1400	1400	1380	1390	1390	1390
Density(g/cm3)		8.7	8.4	8.1	8.2	7.9	7.9
Resistivity at 20°C(μΩ@m)		0.76±0.05	1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05	1.04±0.05
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	43.8
Coefficient of lines expansion α×10 ⁻⁶ /(20 1000°C)			18	17	17	19	19
Micrographic structure			Austenite	Austenite	Austenite	Austenite	Austenite

Magnetic properties		Nonmagnetic	Nonmagnetic	Nonmagnetic	Weak magnetic	Weak magnetic
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