



Bright Annealed Ultra Thin 0.025mm 0.05mm Nichrome Alloy Ni80Cr20 Resistance Heating Wire Supplier

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO
- Model Number: NiCr 80/20
- Minimum Order Quantity: 50 KGS
- Price: 50 - 500 kgs \$35-\$43
- Packaging Details: Wooden Case
- Delivery Time: 21-45 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
- Max Width: 200-250mm
- Density: 8.40 G/cm3
- Resistivity: 1.09 ± 0.05
- Elongation At Rupture: $\geq 20\%$
- Max Working Temperature: 1200°C
- Melting Point: 1400°C
- Thermal Conductivity KJ/m.h °C: 60.3
- Magnetic Properties: Nonmagnetic
- MOQ: 10-50KGS
- Lead Time: 15-35 Days After Order Confirm
- Highlight: 0.025mm Nichrome Alloy Resistance Heating Wire



More Images



Product Description

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Cr20Ni80 is a high-performance nickel-chromium alloy wire known for its exceptional corrosion resistance and excellent mechanical properties. This alloy composition, consisting of approximately 20% chromium and 80% nickel, makes it a versatile choice for a wide range of industrial applications.

What is the key features of nichrome wire?

1. Corrosion Resistance:

The high chromium content in the CR20Ni80 alloy forms a protective oxide layer on the surface, providing excellent resistance to corrosion, even in harsh environments.

This characteristic ensures the longevity and reliability of components made from this alloy, minimizing the need for frequent replacements.

2. Mechanical Strength:

The CR20Ni80 alloy exhibits impressive mechanical strength and tensile properties, making it suitable for applications that require high-performance and durable materials.

This strength is maintained even at elevated temperatures, making the alloy wire a reliable choice for use in high-temperature environments.

3. Thermal Stability:

The CR20Ni80 alloy is capable of withstanding temperatures up to 1100°C (2012°F) without significant degradation of its properties.

This thermal stability ensures the reliability and consistent performance of components made from this alloy wire, even in demanding thermal applications.

4. Electrical Resistance:

The CR20Ni80 alloy wire has a high electrical resistance, making it suitable for use as resistance heating elements in various electrical and electronic devices.

This property, combined with the alloy's thermal stability, allows for precise temperature control and efficient heat generation.

5. Versatility:

The CR20Ni80 alloy wire can be manufactured in a wide range of diameters and configurations to meet the specific requirements of different applications.

This versatility makes the alloy wire a popular choice across various industries, including aerospace, chemical processing, and power generation.

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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