



Bright Annealed Nichrome Alloy Ni60Cr15 Cr15Ni60 Resistance Strip Tapes For Industrial Heating & Thermal Process

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO
- Model Number: NiCr 60/15
- Minimum Order Quantity: 50 KGS
- Price: 50 - 500 kgs \$28-\$35
- 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: 8.20 G/cm3
- Resistivity: 1.12 ± 0.05
- Elongation At Rupture: $\geq 20\%$
- Max Working Temperature: 1150°C
- Melting Point: 1390°C
- Thermal Conductivity KJ/m.h °C: 45.2
- Magnetic Properties: Nonmagnetic
- MOQ: 10-50KGS
- Lead Time: 15-35 Days After Order Confirm
- Highlight: Industrial Heating Nichrome Alloy, Thermal Process Nichrome Alloy, Cr15Ni60 Nichrome Alloy



More Images



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Factory Price Bright Annealed Soft Nichrome NiCr 60/15 Cr15Ni60 Flat Strip / Tapes In Coil

NiCr60/15 is a high-performance nickel-chromium alloy that is widely used in various industrial applications requiring excellent resistance to high temperatures, oxidation, and corrosion. This alloy is composed of approximately 60% nickel and 15% chromium, along with small amounts of other elements such as iron, manganese, and silicon.

What Is The Main Key Features and Benefits Of Ni60Cr15 Alloy?

1. High-Temperature Resistance:

The NiCr60/15 alloy can withstand temperatures up to 1200°C (2192°F) without significant degradation of its mechanical properties or performance.

This makes it an ideal choice for applications that involve exposure to high-temperature environments, such as heating elements, furnace components, and thermal processing equipment.

2.Oxidation Resistance:

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

This characteristic helps to extend the service life of NiCr60/15 components and reduces the need for frequent replacements.

3. Electrical Resistance:

NiCr60/15 has a high electrical resistance, making it suitable for use as heating elements in a wide range of electrical and electronic devices.

The consistent and predictable electrical properties of this alloy enable precise temperature control and efficient heat generation.

4. Mechanical Strength:

The NiCr60/15 alloy exhibits good mechanical strength and tensile properties, even at elevated temperatures.

This allows for the fabrication of robust and durable components that can withstand the stresses and demands of high-temperature industrial applications.

5.Versatility:

NiCr60/15 can be manufactured in various product forms, including wires, strips, ribbons, and foils, to meet the specific requirements of different applications.

This versatility makes the alloy suitable for a wide range of industries, including heating, electronics, aerospace, and chemical processing.

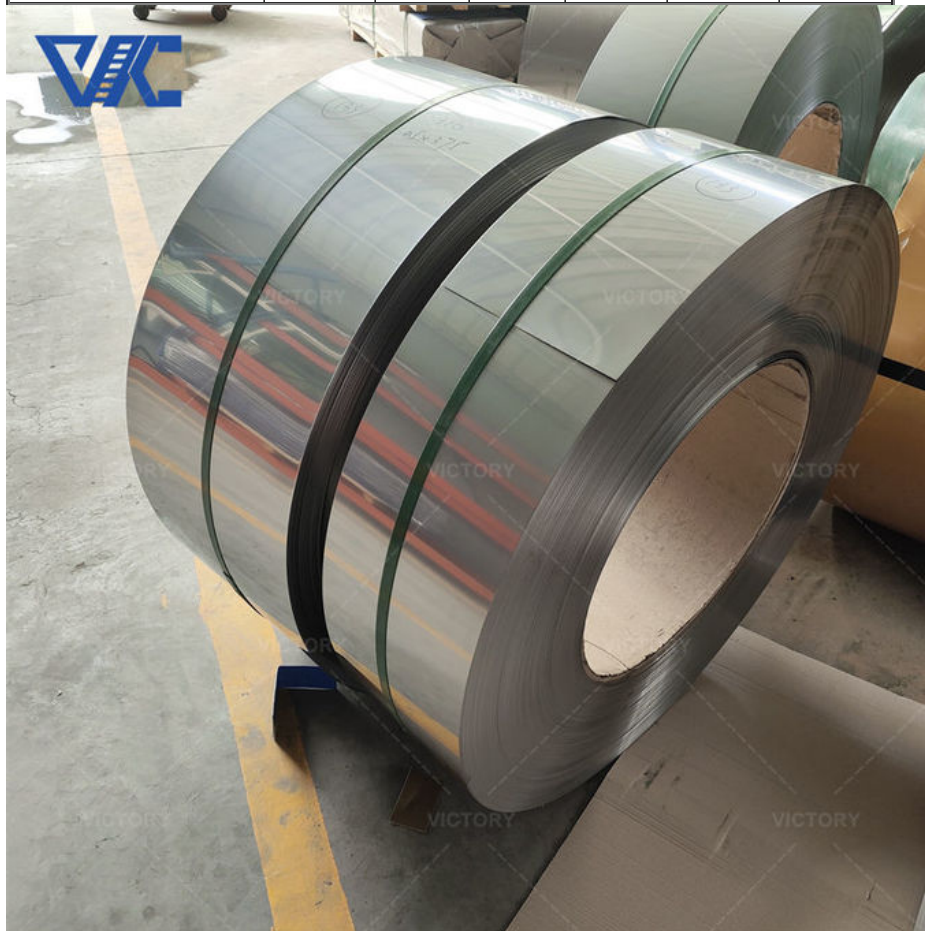
The Main Applications of NiCr60/15 Alloy:

1. Heating elements in electric furnaces, ovens, and industrial heaters.
2. Thermal processing equipment, such as kilns, ovens, and heat-treating furnaces.
3. Resistance heating components in electronic devices and appliances.
4. Protective coatings and shielding for high-temperature equipment.
5. Thermocouple elements and other sensing devices.

By combining exceptional high-temperature resistance, oxidation resistance, and electrical properties, the NiCr60/15 alloy has become a widely sought-after material for demanding industrial applications that require reliable and long-lasting performance in challenging environments.

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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