

Nichrome Alloy Cr15Ni60 Nikrothal 60 Resistohm 60 Electric Heating Resistance Flat Wire Robbin

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 3 KGS
 - 3 500 kgs \$24-\$30

China

Victory

Ni60Cr15

Wooden Case

21-32 working days

10 Tons Per Month

ISO

- Packaging Details:
- Delivery Time:

• Price:

- Payment Terms: L/C, T/T, D/A
- Supply Ability:



BLX

之信科技有限公司

Product Specification

•	Highlight:	Nichrome Alloy Flat Wire, Cr15Ni60 Electric Heating Resistance Flat Wire,
•	Lead Time:	15-35 Days After Order Confirm
•	MOQ:	2-5KGS
•	Magnetic Properities:	Nonmagnetic
•	Thermal Conductivity KJ/m.h °C:	60.3
•	Melting Point:	1400°C
•	Max Working Temperature:	1200°C
•	Elongation At Rupture:	≥20%
•	Resistivity:	1.12±0.05
•	Density:	8.20 G/cm3
•	Surface:	Bright/Acid White/Oxidized
•	Material:	Nickel, Chromium

Cr15Ni60 Nichrome Alloy Flat Wire



More Images



Product Description

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CR15Ni60 is a nickel-chromium-based alloy ribbon that is commonly used for various heating and sensing applications. The alloy composition consists of approximately 15% chromium and 60% nickel, with the remaining percentage being iron and other minor alloying elements.

The key properties of CR15Ni60 ribbon include:

1. High Electrical Resistivity: The alloy has a relatively high electrical resistivity, typically in the range of 1.00-1.10 ohmmm²/m, making it suitable for use in heating and sensing applications.

2. Excellent Oxidation Resistance: The chromium content provides good oxidation resistance, allowing the ribbon to operate at high temperatures without significant degradation.

3. High-Temperature Strength: The combination of chromium and nickel provides the alloy with excellent high-temperature strength and creep resistance, enabling its use in applications where sustained high-temperature exposure is required.

4. Corrosion Resistance: The nickel content contributes to the alloy's corrosion resistance, making it suitable for use in environments with moderate to high corrosive conditions.

5. Ductility: The nickel-rich composition of the alloy provides a good balance of ductility and strength, allowing the ribbon to be formed and shaped as needed.

Applications of Cr15Ni60 Ribbon:

1. Heating elements for electric furnaces, ovens, and other high-temperature equipment.

- 2. Sensing elements for temperature measurement, such as in thermocouples and resistance temperature detectors (RTDs).
- 3. Heating components in industrial and domestic appliances.
- 4. Resistor elements in electronic circuits and devices.
- 5. Catalytic converters in automotive exhaust systems.

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35	Cr20Ni30
	Ni	90	Rest	Rest	55.0 61.0	34.0 37.0	30.0 34.0
Composic ion	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 20ºC(μΩ@m)		0.76±0.05	1.09±0.0 5	1.18±0.0 5	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
Coeffic expar 6/(20	cient of lines nsion a×10- 0 1000°C)		18	17	17	19	19
Microgra	aphic structure		Austenite	Austenite	Austenite	Austenite	Austenite
Magnetic properties			Nonmag netic	Nonmagn etic	Nonmagn etic	Weak magnetic	Weak magnetic



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