Hot Sell CuNi Alloy Copper Nickel Resistance Wire Cuni44 Wire Price Per Kg

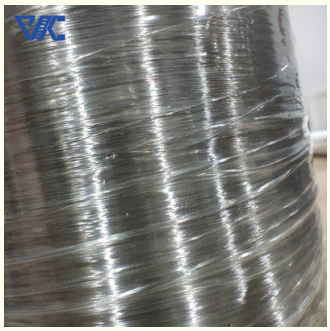
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: CuNi23 CuNi30 CuNi34 6J8 6J11
- Minimum Order Quantity: 5
- Packaging Details: Spool package with Carton box, Coil package with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Product Name: CuNi Wire
- Material: Nickel Copper
- Nickel(Min): 44%
- Resistivity: 0.5
- Tensile Strength: 420 MPA
- Density: 8.9 G/cm3
- Application: Heating, Resistivity
- Condition: Hard / Soft
- Sureface: Bright
- Delivery Time: 7-20 Days
- Maximum Temperature: 420°C
- Melting Point: 1100°C
- Highlight: **CuNi Alloy Wire**, **Heating Resistance CuNi Alloy**, **CuNi2 copper based alloys**



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Our Product Introductio

Product Description

CuNi2 resistance alloy is a type of alloy that comprises copper and nickel in equal proportions. This binary alloy is highly valued for its low temperature coefficient of resistance, which means that its electrical resistance changes minimally with temperature fluctuations. It can withstand a maximum operating temperature of 250°C, making it ideal for use in low voltage electrical devices such as circuit breakers, electric blankets, thermal cutouts, and heating cables.

The low temperature coefficient of resistance of CuNi2 resistance alloy makes it particularly useful in applications where precise control of electrical resistance is critical. For instance, it is commonly used in the manufacturing of low voltage circuit breakers due to its ability to maintain a consistent level of electrical resistance even in the event of temperature changes. Additionally, it is an essential component in low temperature electric blankets, where it helps to regulate the temperature of the blanket and prevent overheating.

The versatility of CuNi2 resistance alloy extends beyond low voltage electrical devices. It is also used to manufacture heating cables for home electric blankets, providing a safe and efficient way to keep warm during cold weather. Its excellent electrical conductivity and resistance to corrosion make it an ideal material for this

application.

In summary, CuNi2 resistance alloy is a highly versatile material that finds wide application in the production of low voltage electrical devices and heating cables. Its unique properties make it an essential component in the manufacturing of circuit breakers, thermal cutouts, and electric blankets.

Product Description

CuNi low-resistance heating alloys are widely used in low-voltage electrical products such as low-voltage circuit breakers and thermal overload relays. It is one of the key materials in low-voltage electrical products. The copper-based low-resistance heating alloy material produced by our company has the characteristics of good resistance consistency and excellent stability. We can supply various specifications of copper-based low-resistance heating alloys. Main properties Round wire, flat and strip.

In most cases, the components are the elements that make up the alloy. However, there are also compounds that are used as components, and the condition is that the compound neither decomposes nor undergoes any chemical reactions within the scope of the study. According to the number of components, it can be divided into binary alloys, ternary alloys or multi-component alloys. For example, simple brass is a binary alloy composed of two elements: copper and zinc; duralumin is composed of three elements: aluminum, copper, and magnesium. composed of ternary alloys.

Copper and nickel can be infinitely dissolved in each other to form a continuous solid solution, that is, regardless of the ratio of each other, it is always an α-single-phase alloy. When nickel is melted into red copper D200, when the content exceeds 16%, the color of the resulting alloy becomes relatively white like silver. The higher the nickel content, the whiter the color. 70%, the naked eye will see the yellow color of copper. What's more, the content of nickel in cupronickel is generally 25%. Cupronickel is an elegant name for copper-nickel alloy, and its density is 8.9-8.88 between copper and nickel.

Properties/ Material	Resistivity (200C μΩ.m)	Max. Working Temperature(C)	Tensile Strength (Mpa)	Melting Point	D
NC003(CuNi1)	0.03	200	210	1085	8
NC005(CuNi2)	0.05	200	220	1090	8
NC010(CuNi6)	0.1	220	250	1095	8
NC012(CuNi8)	0.12	250	270	1097	8
NC015(CuNi10)	0.15	250	290	1100	8
NC020(CuNi14)	0.2	300	310	1115	8
NC025(CuNi19)	0.25	300	340	1135	8
NC030(CuNi23)	0.3	300	350	1150	8
NC035(CuNi30)	0.35	350	400	1170	8
NC040(CuNi34)	0.4	350	400	1180	8
NC050(CuNi44)	0.5	400	420	1200	8

Shape	Size(mm)
Wire	0.08-7.5
Bar	8.0-50
Ribbon	(0.05-0.35)*(0.5-6.0)
Strip	(0.5-2.5)*(5-180)

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)

Changzhou Victory Technology Co., Ltd

+8619906119641 victory@dlx-alloy.com victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu