



## Heating Resistivity CuNi Alloy For Industrial Applications

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS
- Model Number: CuNi Alloy
- Minimum Order Quantity: 2kg
- Packaging Details: Spool package with Carton box, Coil package with polybag for pure nickel wire 0.025mm
- Delivery Time: 5-21 days
- Payment Terms: L/C, D/A, D/P, Western Union
- Supply Ability: 300 tons per month



### Product Specification

- Application: Heating, Resistivity
- Corrosion Resistance: Excellent
- Maximum Temperature: 220°C
- Hardness: 80-150 HV
- Machinability: Fair
- Technology: Rolling And Drawing
- Condition: Hard / Soft
- Yield Strength: 140-450 MPa
- Density: 8.94 G/cm<sup>3</sup>
- Weldability: Good
- Melting Point: 1170-1240°C
- Tensile Strength: 380-620 MPa
- Shape: Custom
- Diameter: 0.1~10mm
- Applications: Marine, Chemical, And Electrical Industries



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## Product Description

### Product Description:

The hardness of CuNi Alloy ranges from 80-120 HV, which makes it ideal for applications that require high strength and durability. This Copper Based Alloy is available in both hard and soft conditions, which allows it to be used in a wide range of applications. The hardness can be adjusted based on the specific needs of the application.

Another important attribute of CuNi Alloy is its high purity. It is a Copper Bronze Alloy that is composed of at least 90% Copper, which ensures that it has excellent electrical conductivity. This makes it ideal for use in applications where high electrical conductivity is required.

CuNi Alloy has a resistivity of 0.5, which makes it an ideal material for use in electrical and electronic applications. This Copper Based Alloy is also known for its excellent thermal conductivity, which makes it ideal for use in applications where heat needs to be transferred efficiently.

The maximum temperature that CuNi Alloy can withstand is 200°C, which makes it suitable for use in high-temperature applications. This Copper Bronze Alloy is also known for its excellent resistance to corrosion, which makes it ideal for use in harsh environments.

Overall, CuNi Alloy is a versatile Copper Based Alloy that is widely used in various industrial applications. Its high purity, excellent corrosion resistance, and good thermal conductivity make it an ideal material for use in electrical and electronic applications, as well as in applications where high strength and durability are required.

### Features:

Product Name: CuNi Alloy

Thermal Expansion Coefficient:  $16.5 \times 10^{-6}/K$

Surface: Bright

Tensile Strength: 400-600 MPa

Application: Industry

Resistivity: 0.5

Related Keywords: Aluminium Copper Alloy, Copper Bronze Alloy, Copper Based Alloys

### Technical Parameters:

Resistivity	0.5
Thermal Expansion Coefficient	$16.5 \times 10^{-6}/K$
Density	8.94 G/cm <sup>3</sup>
Maximum Temperature	200°C
Surface	Bright
Composition	Copper And Nickel
Condition	Hard / Soft
Purity	High Purity
Hardness	80-120 HV
Tensile Strength	400-600 MPa

### Applications:

The Victory CuNi Alloy is widely used in various industries for different product application occasions and scenarios due to its exceptional properties. Some of the common application fields are mentioned below:

Aluminium Copper Alloy:

The Victory CuNi Alloy is used as a raw material in the manufacturing of aluminium copper alloy, which is used in the aerospace industry for its high strength and resistance to corrosion. The alloy is used to produce engine parts, landing gear, and other critical components that require high strength and durability.

Copper Powder Metallurgy:

The Victory CuNi Alloy is also widely used in the copper powder metallurgy industry. The alloy is used to manufacture various powder metallurgy products such as gears, bearings, and sintered filters. The excellent corrosion resistance of the alloy makes it an ideal choice for these types of products.

Automotive Industry:

The Victory CuNi Alloy is extensively used in the automotive industry for the production of various components such as brake lines, fuel systems, and hydraulic systems. The alloy's corrosion resistance and thermal expansion coefficient make it an ideal choice for these applications.

Marine Industry:

The Victory CuNi Alloy is also used in the marine industry, where its excellent corrosion resistance is critical. The alloy is used to manufacture various marine components such as heat exchangers, condensers, and piping systems.

The Victory CuNi Alloy has a maximum temperature of 200°C, making it suitable for a wide range of applications. Its exceptional properties make it a highly sought-after product in various industries.

### Customization:

Looking to customize your Victory CuNi Alloy product? Look no further! Our product customization services offer a range of

options to tailor your Aluminium Copper Alloy or Copper Nickel Alloy to your specific needs.

Our CuNi Alloy product comes from China and has a hardness range of 80-120 HV, a density of 8.94 G/cm<sup>3</sup>, and a tensile strength of 400-600 MPa. It is available in both hard and soft conditions and has a bright surface.

Whether you need to adjust the hardness level, alter the surface finish, or modify any other aspect of the Alloy Steel Metal, we have the expertise and capabilities to help you achieve your desired outcome. Contact us today to learn more about our product customization services.

### Support and Services:

The CuNi alloy is a versatile material used in a wide range of industries. Our technical support team is available to assist with any questions regarding the properties and applications of the CuNi alloy. We can provide guidance on material selection, manufacturing processes, and troubleshooting. Our services include:

Material testing and analysis

Custom alloy development

Product design consultation

On-site support and training

Quality control and assurance

Our goal is to ensure the successful integration of the CuNi alloy into your products and processes. Contact us to learn more about our technical support and services.

### Packing and Shipping:

Product Packaging:

The CuNi Alloy product is packaged in a sturdy cardboard box with cushioning material to ensure safe delivery. Each box contains 10 pieces of the alloy product wrapped in plastic to prevent any scratches during transportation.

Shipping:

We ship our CuNi Alloy product worldwide through reliable shipping companies. Depending on your location, shipping times may vary. Please allow 3-5 business days for processing and handling before your order is shipped. Once shipped, you will receive a tracking number to track your package's delivery status.

### FAQ:

**Q:** What is the brand name of this product?

**A:** The brand name of this product is Victory.

**Q:** What is the model number of this product?

**A:** The model number of this product is CuNi Alloy.

**Q:** Where is this product made?

**A:** This product is made in China.

**Q:** What is the composition of this product?

**A:** This product is made of copper and nickel alloy.

**Q:** What are the common applications of CuNi Alloy?

**A:** CuNi Alloy is commonly used in the marine industry for its resistance to corrosion and its ability to withstand high temperatures. It is also used in electrical applications due to its high conductivity.



Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

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