

# Sureface Bright Alloy Steel Material with Emf Vs Cu -18 UV/C

# Basic Information • Place of Origin: China • Brand Name: Victory

CuNi Alloy

Model Number:



114

BLX

亦難之信科技有限公司

Product Specification		
Density:	8.94 G/cm3	
• Hardness:	80-120 HV	
• Emf Vs Cu:	-18 UV/C	
Condition:	Hard / Soft	
Thermal Expansion     Coefficient:	16.5 X 10^-6/K	
Application:	Industry	
Corrosion Resistance:	Excellent	
Sureface:	Bright	
Highlight:	Emf Vs Cu Alloy Steel Material, UV/C Alloy Steel Material, Bright Alloy Steel Material	

#### **Product Description:**

The CuNi Alloy is made using copper powder metallurgy techniques, which involves the blending of copper and nickel powders to create a homogeneous mixture. The mixture is then compacted at high pressures and sintered at high temperatures to form a solid metal alloy. This process ensures that the alloy has a uniform composition and excellent mechanical properties.

The CuNi Alloy is available in both hard and soft conditions, depending on the intended application. The hard condition is achieved by cold working the alloy, which increases its strength and hardness. The soft condition is achieved by annealing the alloy, which reduces its strength and hardness but improves its ductility and formability.

The CuNi Alloy has a bright surface finish, which is achieved by polishing or buffing the surface of the alloy. The bright surface finish enhances the aesthetic appeal of the alloy and makes it suitable for decorative applications.

The CuNi Alloy has a tensile strength of 400-600 MPa, which makes it suitable for use in various mechanical applications. The high tensile strength of the alloy ensures that it can withstand high stresses and strains without undergoing plastic deformation. The CuNi Alloy is commonly used in various industrial applications, including marine engineering, chemical processing, and electrical engineering. Its excellent corrosion resistance makes it suitable for use in marine environments, where it is exposed to saltwater and other corrosive agents. Its high electrical conductivity makes it suitable for use in electrical components, where it is used to conduct

In conclusion, the CuNi Alloy is a copper nickel alloy that is widely used in various industrial applications. It is made using copper powder metallurgy techniques and is available in both hard and soft conditions. The alloy has a bright surface finish and a tensile strength of 400-600 MPa. Its excellent corrosion resistance and high electrical conductivity make it suitable for use in various industrial applications.

#### Features:

electrical current.

Product Name: CuNi Alloy Hardness: 80-120 HV Density: 8.94 G/cm3 Condition: Hard / Soft Maximum Temperature: 200°C Emf Vs Cu: -18 UV/C Material Type: Copper Nickel Alloy Usage: Copper Metal Products Alternate Name: Copper Bronze Alloy

#### **Technical Parameters:**

Purity:	High Purity
Condition:	Hard / Soft
Surface:	Bright
EMF Vs Cu:	-18 UV/C
Composition:	Copper And Nickel
Density:	8.94 G/cm3
Thermal Expansion Coefficient:	16.5 X 10^-6/K
Maximum Temperature:	200°C
Corrosion Resistance:	Excellent

#### **Applications:**

One of the most common application scenarios for CuNi Alloy is in the marine industry. Due to its corrosion resistance, it is often used in shipbuilding to make parts such as heat exchangers, cooling systems, and condensers. Victory's CuNi Alloy is particularly useful in saltwater environments, where other materials may not be able to withstand the harsh conditions.

Another application scenario for CuNi Alloy is in the chemical industry. Because of its resistance to corrosion and high temperatures, it is often used to make pipes, valves, and fittings for chemical processing equipment. It is also used in the oil and gas industry to make parts such as heat exchangers, tubing, and pipelines.

In the automotive industry, CuNi Alloy is used to make parts such as brake lines, fuel tanks, and radiators. Its strength, durability, and resistance to corrosion make it an ideal material for these applications. CuNi Alloy is also used in the aerospace industry to make parts such as fuel lines, hydraulic lines, and engine components. Its high strength and resistance to extreme temperatures make it a valuable material for these applications.

Victory's CuNi Alloy is also compatible with other alloys such as Inconel Nickel Alloy and Aluminium Copper Alloy. This makes it an ideal material for use in electrical applications, as it can be used to make wires, cables, and connectors. Its low resistivity makes it an excellent conductor of electricity, and its high strength ensures that it can withstand the rigors of everyday use.

Finally, CuNi Alloy is also used in the construction industry to make parts such as HVAC systems, boilers, and heat exchangers. Its high strength and resistance to corrosion make it an ideal material for these applications.

In conclusion, Victory's CuNi Alloy is a versatile and valuable product that has a wide range of application occasions and scenarios in the industry. Its high strength, low emf versus copper, and low resistivity make it an ideal material for use in marine, chemical, automotive,

aerospace, and construction industries. Its compatibility with other alloys such as Inconel Nickel Alloy and Aluminium Copper Alloy make it an essential material for electrical applications.

### **Customization:**

Customize your Victory CuNi Alloy product to fit your specific needs with our Product Customization Services. Our CuNi Alloy is a type of Alloy Steel Metal that is composed of Copper and Nickel. It has a diameter range of 0.1~10mm and a bright surface finish. With a resistivity of 0.5 and excellent corrosion resistance, it is a reliable and durable material that is perfect for a wide range of applications. Our Product Customization Services allow you to tailor your CuNi Alloy product to your exact specifications. Whether you need a specific diameter, surface finish or composition, we can help. Our CuNi Alloy is sourced from China and is of the highest quality. We also offer customization services for other materials such as Inconel Nickel Alloy and Aluminium Copper Alloy.

#### Support and Services:

Our CuNi alloy product is designed to provide superior corrosion resistance and thermal stability for a variety of applications. Our technical support team is available to assist with product selection, installation, and maintenance to ensure optimal performance. Our services include:

Technical consultation

Custom product design

Material testing and certification

Product installation guidance

Routine maintenance and repair services

We are committed to providing the highest quality products and services, and our technical support team is always available to answer any questions or address any concerns you may have. Contact us today to learn more about our CuNi alloy products and how we can help meet your specific needs.

## Packing and Shipping:

Product Name: CuNi Alloy

Quantity: 1 kg

Packaging: The product will be packed in a sturdy and secure plastic bag to prevent any damage during transportation. Shipping: The product will be shipped via standard shipping and delivery will take approximately 5-7 business days.

#### 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 manufactured?
- A: This product is manufactured in China.
- Q: What are the applications of CuNi Alloy?
- A: CuNi Alloy is commonly used in marine applications, power generation, and desalination plants.
- Q: What are the available sizes of CuNi Alloy?
- A: CuNi Alloy is available in various sizes ranging from 0.1mm to 10mm thickness and 10mm to 1000mm width.

