10% nickel copper nickel alloy CuNi NC015 CuNi10 heating wire for marine environments

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ROHS,ISO 9001
- Model Number: CuNi10 NC015
- Minimum Order Quantity: 5~10kgs
- Price: 15~20$/kg
- Packaging Details: Wooden box/pallet, spool wire with carton box, coil 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: 10% Nickel Copper Nickel Alloy CuNi NC015 CuNi10 Heating Wire For Marine Environments
- Material: Cu/Ni/Mn
- Nickel: 10%
- Resistivity: 0.15μΩ.m20°C
- Tensile Strength: 290 MPA
- Density: 8.9 G/cm3
- Condition: Hard / Soft
- Sureface: Bright
- Delivery Time: 7-20 Days
- Maximum Temperature: 250°C
- Melting Point: 1100°C
- TCR: 50 X10-6/C
- EMF Vs Cu: -25 UV/C
- Elongation: 15~25%

More Images

Our Product Introduction

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Product Description

Introduction:

NC015 Cuni10 is a type of copper-nickel alloy. also known as CuNi10Fe1Mn, is a specific copper-nickel alloy with approximately 90% copper, 10% nickel, and small amounts of iron and manganese
This alloy is known for its good corrosion resistance, especially in marine environments, making it suitable for applications such as marine hardware, heat exchangers, and condensers.

Application:

Condensers: NC015 Cuni10 is also utilized in the construction of condensers for power plants, chemical plants, and other industrial facilities due to its resistance to corrosion and ability to withstand high temperatures.
Electrical components: The alloy's electrical conductivity makes it suitable for use in electrical connectors, terminals, and other components where both electrical and corrosion resistance are required.
Heat exchangers: The alloy's good thermal conductivity and resistance to corrosion make it ideal for use in heat exchangers for applications such as HVAC systems, refrigeration units, and chemical processing equipment.

Advantage:

When compared to other CuNi alloys, such as CuNi30 (70% copper, 30% nickel) and CuNi90/10 (90% copper, 10% nickel), NC015 Cuni10 has some distinct characteristics:
Composition: NC015 Cuni10 has a higher copper content compared to CuNi30 and CuNi90/10, which affects its overall properties such as corrosion resistance, thermal conductivity, and electrical conductivity.
Corrosion resistance: NC015 Cuni10 offers good corrosion resistance, especially in marine environments, due to its higher copper content. It is often preferred for applications where exposure to seawater or corrosive environments is a concern.
Overall, the choice between NC015 Cuni10 and other CuNi alloys depends on the specific requirements of the application, such as corrosion resistance, mechanical strength, thermal conductivity, and cost considerations. Each alloy has its own unique properties that make it suitable for different uses.

Parameter:

Main Chemical composition (%)

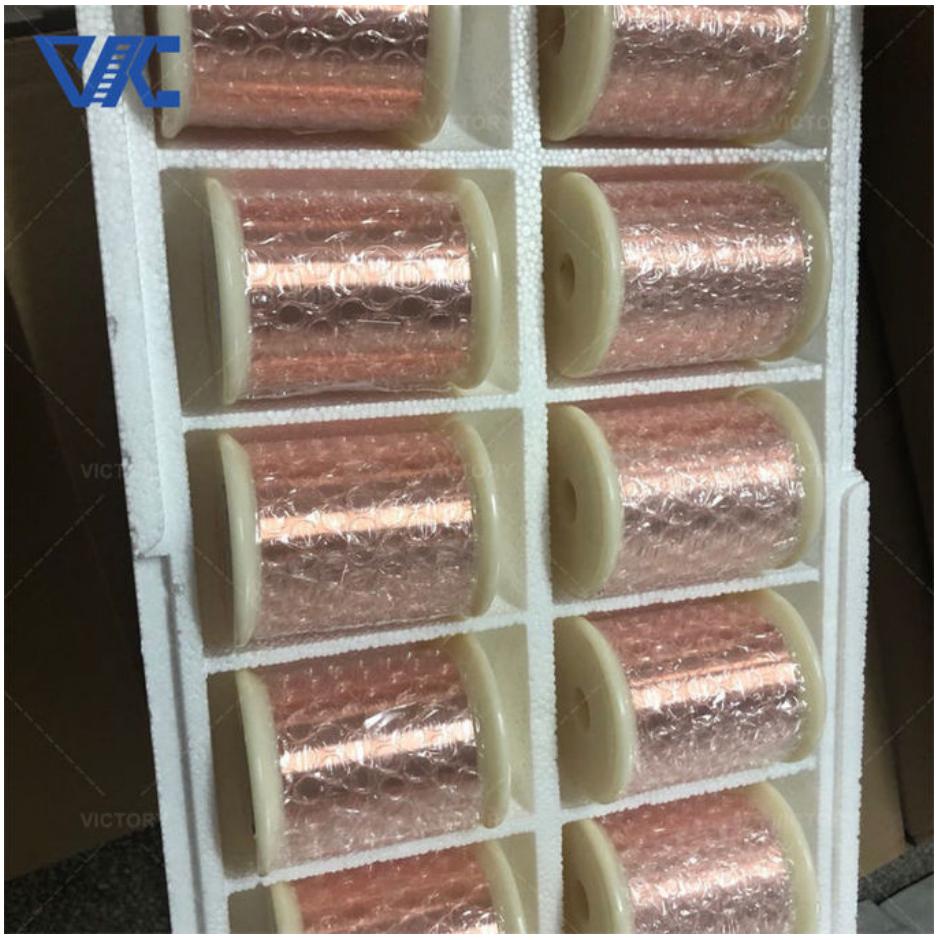
NC015 CuNi10	Copper	Nickel	Manganese
Chemical	balance	10%	1~1.5%

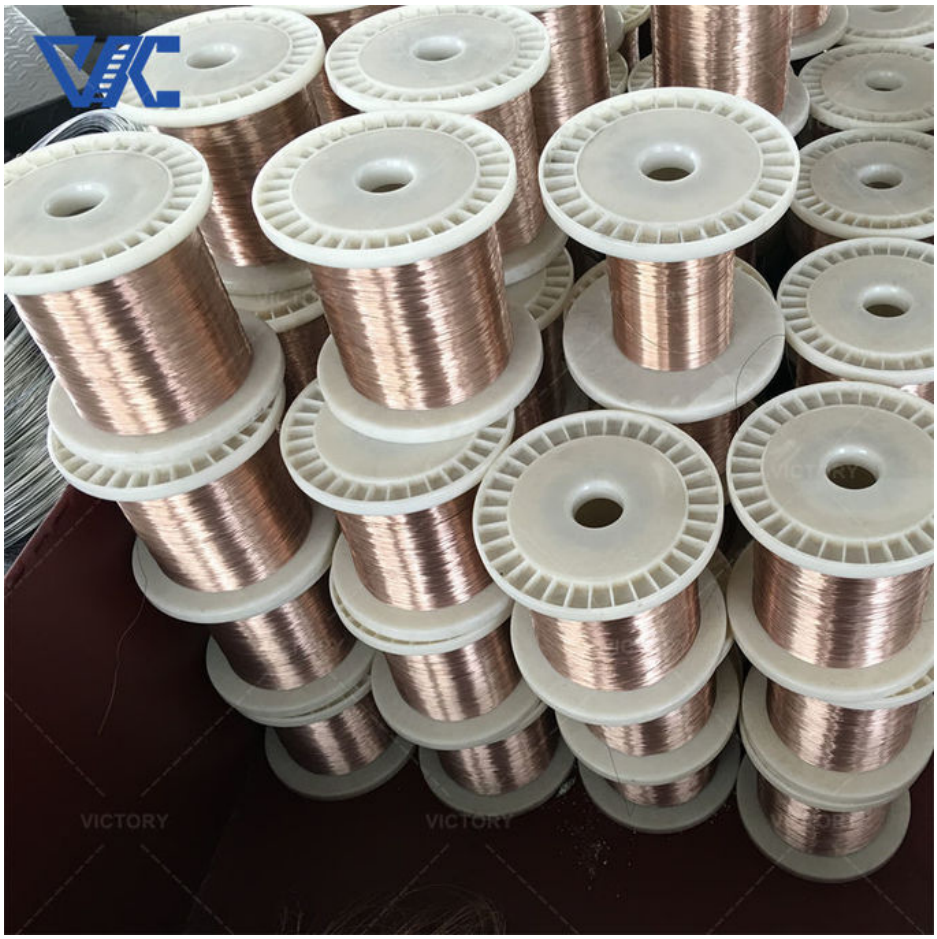
Physical Parameters:

Type	Resistivity (μΩ.m20°C)	Max working temperature (°C)	Tensile strength (Mpa)	Melting point (°C)	Density (g/cm)	TCR (x10-6/°C) (20~600°C)	EMF vs Cu uV/°C (0~100°C)	Elongation (%)
CuNi10	0.15	250	290	1100	8.9	50	-25	15~35%

Type of product:

Type	Size(mm)		others
Round wire	0.1~8mm		Customized
Flat ribbon wire	W-0.5~5mm	T-0.1~3mm	
Strip/foil	W-6~250mm	T-0.1~3mm	
Rod	8~200mm		





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