92% copper and 8% nickel CuNi copper nickel alloy NC012 cuni8 wire

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ROHS,ISO 9001
- Model Number: CuNi8 NC012
- Minimum Order Quantity: 5~10kgs
- Price: 15~22$/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: 92% Copper And 8% Nickel CuNi Copper Nickel Alloy NC012 Cuni8 Wire
- Material: Cu/Ni/Mn
- Nickel: 8%
- Resistivity: 0.12μΩ.m20°C
- Tensile Strength: 270 MPA
- Density: 8.9 G/cm3
- Condition: Hard / Soft
- Sureface: Bright
- Delivery Time: 7-20 Days
- Maximum Temperature: 250°C
- Melting Point: 1097°C
- TCR: 57 X10-6/C
- EMF Vs Cu: -22 UV/C
- Elongation: 15~35%

More Images

Product Description

Introduction:

The NC012 CuNi8 alloy is a copper-nickel alloy with a composition of approximately 92% copper and 8% nickel.
This alloy is known for its good corrosion resistance, particularly in marine environments, making it suitable for applications such as shipbuilding, offshore structures, and heat exchangers.
Additionally, CuNi8 alloy exhibits good thermal conductivity and is often used in electrical and electronic applications as well.

Application:

Thermal Conductivity: CuNi8 alloy has good thermal conductivity, which is beneficial for applications where heat transfer is important. This property can be advantageous in heat exchangers and similar applications.
Electrical Properties: Copper-nickel alloys, including CuNi8, are known for their good electrical conductivity. This makes them suitable for electrical and electronic applications where conductivity is crucial.
Machinability and Weldability: CuNi8 alloy generally exhibits good machinability and weldability, allowing for ease of fabrication and forming processes.

Advantage:

Copper-Nickel:
Good corrosion resistance: Copper-nickel alloy performs well in marine environments and has good resistance to seawater corrosion.
Good thermal conductivity: Copper-nickel alloy has good thermal conductivity and is suitable for applications requiring good thermal conductivity.
Electrical properties: Copper-nickel alloys have good electrical conductivity and are suitable for electrical and electronic applications that require high electrical conductivity.

Stainless Steel:
Corrosion Resistance: Stainless steel is known for its excellent corrosion resistance, especially in harsh environments.
Strength: Stainless steel generally has higher strength and hardness than copper-nickel alloys.
Appearance: Stainless steel has an elegant appearance and is easy to clean and maintain.

Parameter:

Main Chemical composition (%)

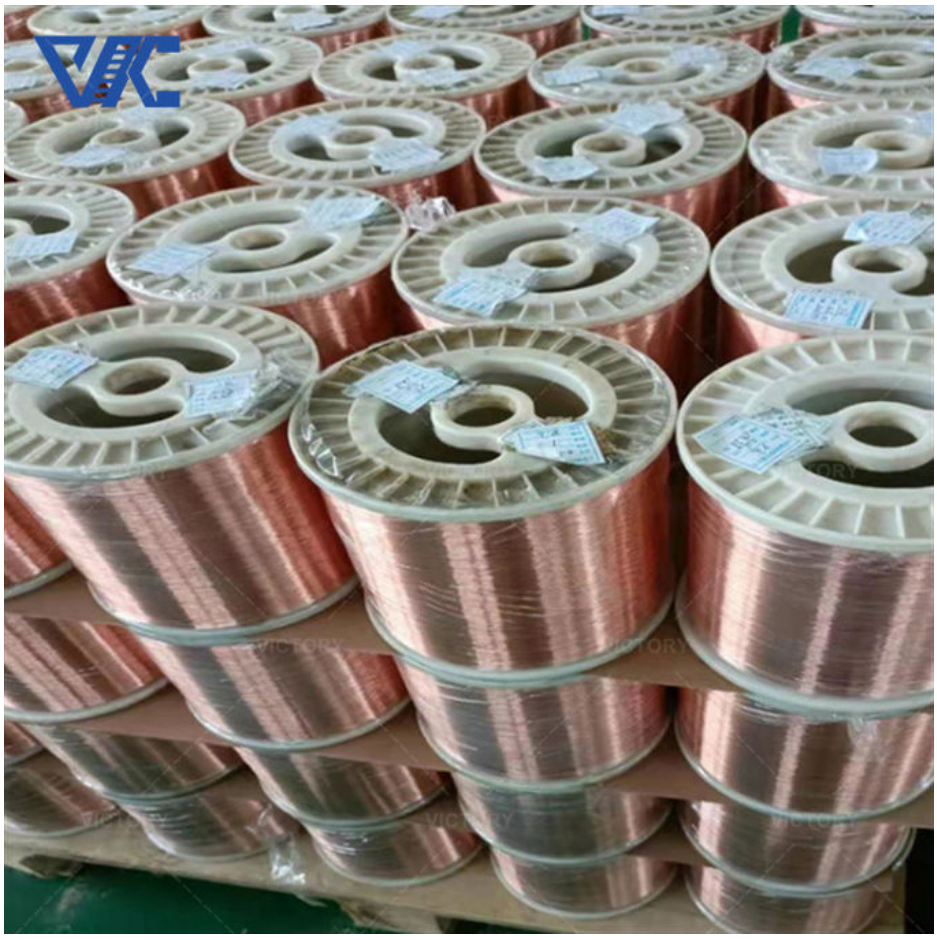
NC012 CuNi8	Copper	Nickel	Manganese
Chemical	balance	8%	1~1.5%

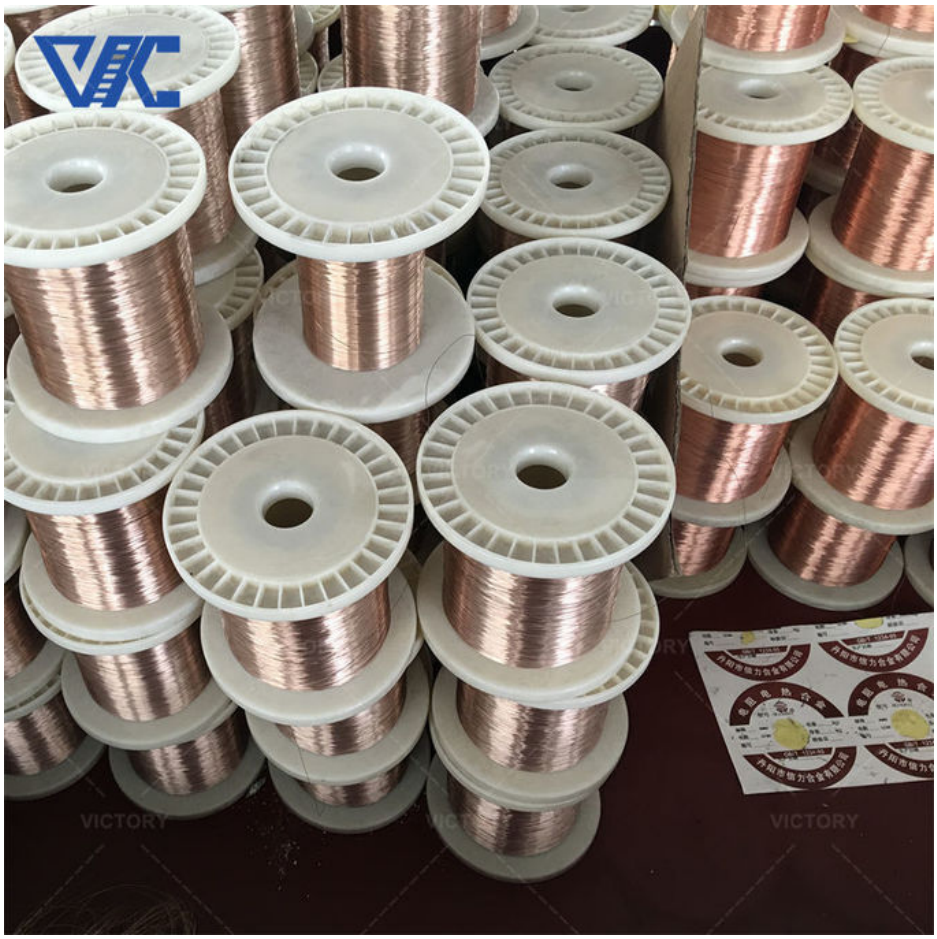
Physical Parameters:

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 (%)
CuNi8	0.12	250	270	1097	8.9	57	-22	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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