Copper Nickel Alloy Low Electric Resistance Wire NC003 CuNi 1 Heating Wire

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ROHS,ISO 9001
- Model Number: CuNi1 NC003
- 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: Copper Nickel Alloy Low Electric Resistance Wire NC003 CuNi 1 Heating Wire
- Material: Cu/Ni/Mn
- Nickel: 1%
- Resistivity: 0.03μΩ.m20°C
- Tensile Strength: 210 MPA
- Density: 8.9 G/cm3
- Condition: Hard / Soft
- Sureface: Bright
- Delivery Time: 7-20 Days
- Maximum Temperature: 200°C
- Melting Point: 1085°C
- TCR: 100 X10-6/C
- EMF Vs Cu: -8 UV/C
- Elongation: 15~35%

More Images

Product Description

Introduction:

The CUNI 1 wire is a type of copper-nickel alloy wire, often used in applications where corrosion resistance and thermal conductivity are important.
It is commonly used in marine and automotive industries, as well as in various types of electrical and electronic equipment.
The specific properties of CUNI 1 wire make it suitable for a wide range of applications where these characteristics are essential.

Application:

Marine industry: CUNI 1 wire is often used in marine applications due to its excellent resistance to seawater corrosion.
Automotive industry: It is used in automotive applications where corrosion resistance and thermal conductivity are important, such as in brake lines and hydraulic systems.
Electrical and electronic equipment: CUNI 1 wire is utilized in various electrical and electronic components where its conductivity and resistance to corrosion are advantageous.
Heat exchangers: Due to its thermal conductivity and resistance to corrosion, CUNI 1 wire is employed in heat exchanger systems.
Desalination plants: The corrosion resistance of CUNI 1 wire makes it suitable for use in desalination plants where it is exposed to saline environments.

Advantage:

Corrosion resistance: CUNI 1 wire provides excellent resistance to corrosion, particularly in marine environments and other applications where exposure to corrosive elements is a concern. This sets it apart from some other CuNi alloys that may not offer the same level of corrosion resistance.
Thermal conductivity: CUNI 1 wire exhibits good thermal conductivity, making it suitable for applications where heat transfer is important. This can be advantageous compared to certain CuNi alloys with lower thermal conductivity.
Ductility and workability: CUNI 1 wire is known for its good ductility and workability, allowing it to be easily formed and fabricated into various shapes. This can be an advantage over other CuNi alloys that may be less malleable.
Resistance to biofouling: In marine applications, CUNI 1 wire's resistance to biofouling (the accumulation of microorganisms, plants, algae, or animals on wetted surfaces) can be superior to that of some other CuNi alloys.

Parameter:

Main Chemical composition (%)

NC003 CuNi1	Copper	Nickel	Manganese
Chemical	balance	1%	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 (%)
CuNi1	0.03	200	210	1085	8.9	100	-8	20~25%

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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