High tensile strength copper nickel alloy Curpothal30 NC030 CuNi23 wire for low-voltage circuit breakers

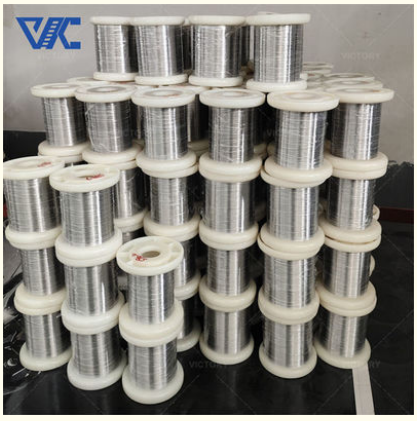
Our Product Introduction

Basic Information

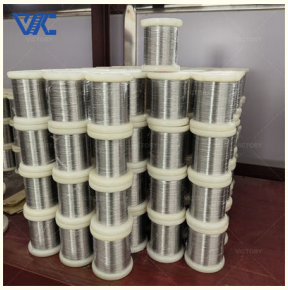
- Place of Origin: China
- Brand Name: Victory
- Certification: ROHS,ISO 9001
- Model Number: CuNi23 NC030
- Minimum Order Quantity: 5~10kgs
- Price: 20~25$/kg
- Packaging Details: Wooden box/pallet, spool wire with carton box, coil with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Product Name: High Tensile Strength Copper Nickel Alloy Curpothal30 NC030 CuNi23 Wire For Low-voltage Circuit Breakers
- Material: Cu/Ni/Mn
- Nickel: 23%
- Resistivity: 0.30μΩ.m20°C
- Tensile Strength: 350 MPA
- Density: 8.9 G/cm3
- Condition: Hard / Soft
- Sureface: Bright
- Delivery Time: 7-20 Days
- Maximum Temperature: 300°C
- Melting Point: 1150°C
- TCR: 16 X10-6/C
- EMF Vs Cu: -34 UV/C
- Elongation: 15~25%



More Images



Product Description

Introduction:

NC030 CuNi23 wire is a type of copper-nickel alloy wire with specific composition and characteristics.
It is known for its high tensile strength and increased electrical resistance value, making it suitable for various applications in the electrical and electronics industry. This wire is commonly used in manufacturing resistors, low-voltage circuit breakers, thermal overload relays, and other low-resistance heating elements. It offers good performance and stability in electrical and thermal control devices.

Application:

Resistor Applications: NC030 CuNi23 wire is commonly used in the manufacturing of resistors due to its specific electrical resistance properties.
Low-Resistance Heating Alloy: This wire is also utilized as a low-resistance heating alloy in products such as low-voltage circuit breakers and thermal overload relays.
Electrical Components: NC030 CuNi23 wire can be found in a range of electrical components where its properties are beneficial for performance and stability.

Advantage:

High Tensile Strength: NC030 CuNi23 wire exhibits high tensile strength, making it durable and resistant to deformation during use.
Increased Electrical Resistance: This wire has an increased electrical resistance value, which is beneficial for applications requiring specific resistance properties.
Good Performance: NC030 CuNi23 wire offers good performance in various applications, ensuring reliable operation.
Stability: The wire demonstrates stability in electrical and thermal environments, contributing to consistent performance over time.
Versatility: NC030 CuNi23 wire is versatile and can be used in a wide range of applications in the electrical and electronics industry.

Parameter:

Main Chemical composition (%)

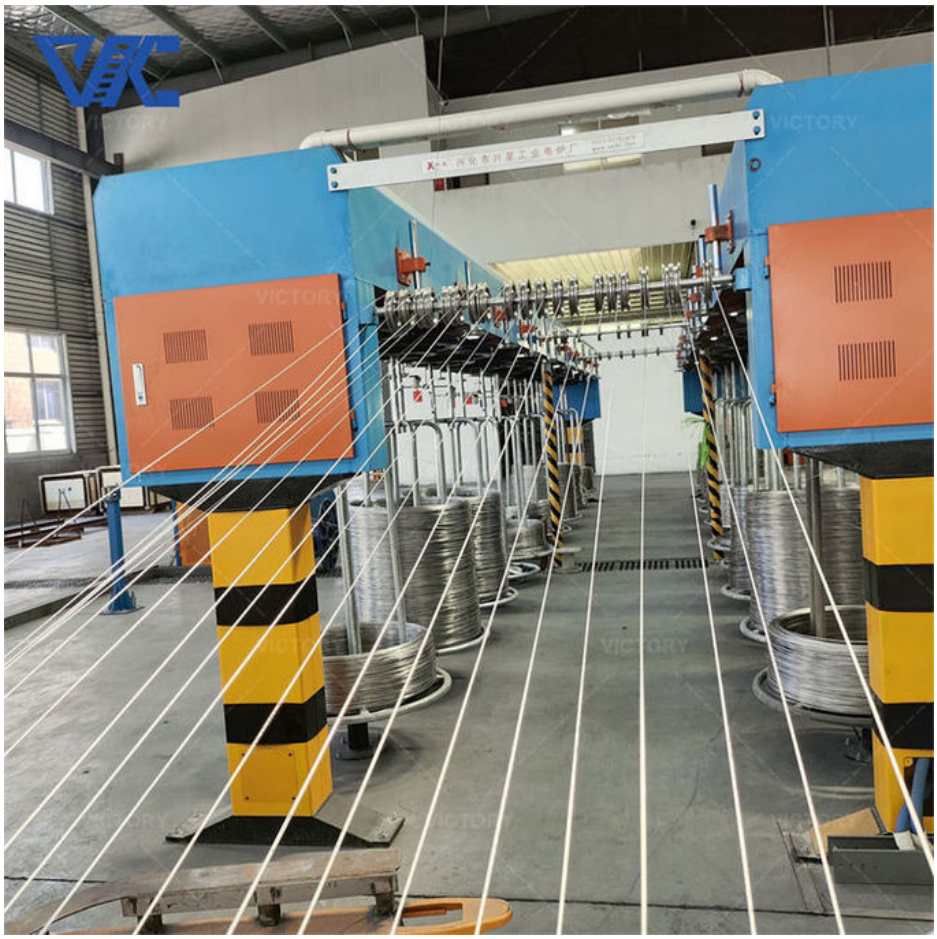
NC030 CuNi23	Copper	Nickel	Manganese
Chemical	balance	23%	1~1.5%

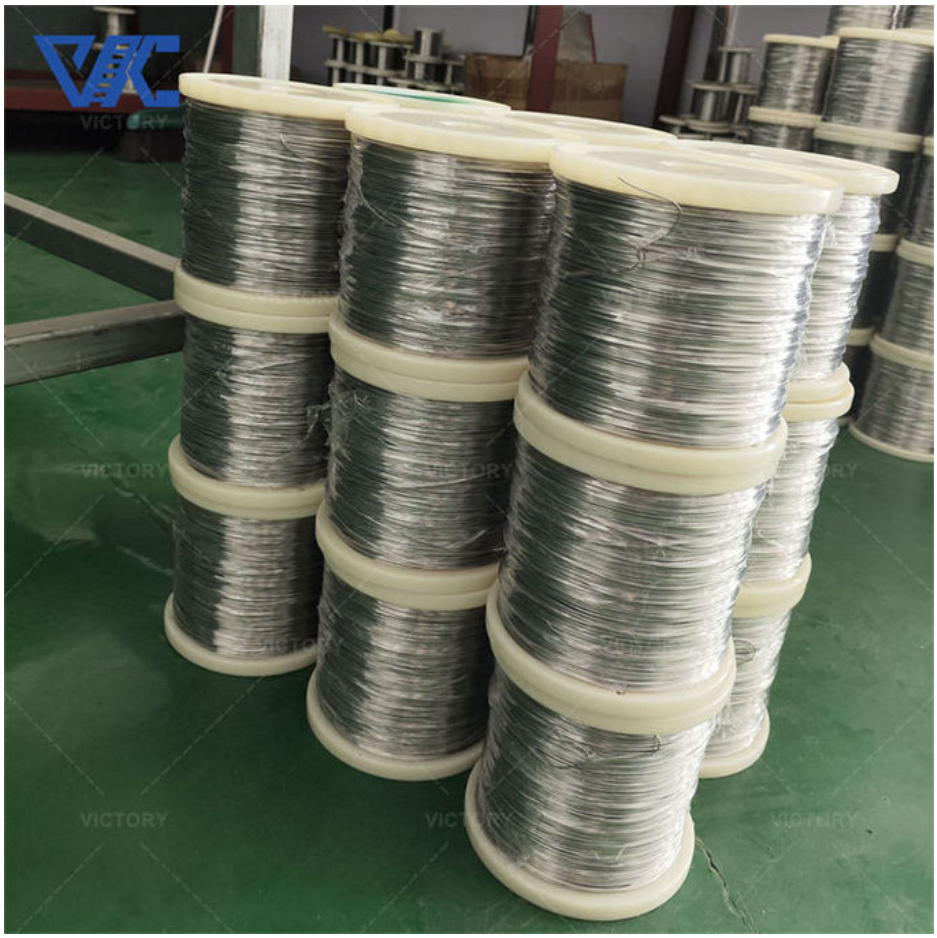
Physical Parameters:

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 (%)
CuNi23	0.30	300	350	1150	8.9	16	-34	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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