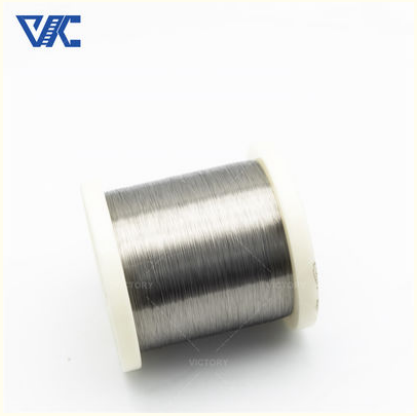
Heating Elements Used Copper Nickel Alloy NC035 CuNi 30 Resistance Wire With Thermal Stability

Our Product Introduction

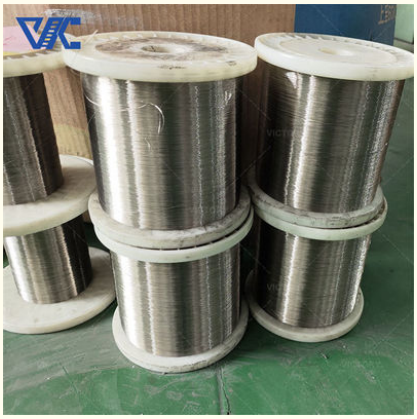
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ROHS,ISO 9001
- Model Number: CuNi30 NC035
- 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

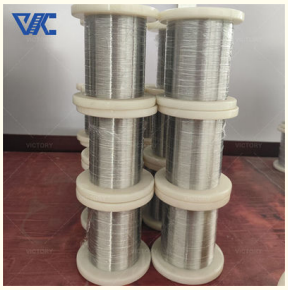


Product Specification

- Product Name: Heating Elements Used Copper-nickel Alloy NC035 CuNi 30 Resistance Wire With Thermal Stability
- Material: Cu/Ni/Mn
- Nickel: 30%
- Resistivity: 0.35μΩ.m20°C
- Tensile Strength: 400 MPA
- Density: 8.9 G/cm3
- Condition: Hard / Soft
- Sureface: Bright
- Delivery Time: 7-20 Days
- Maximum Temperature: 350°C
- Melting Point: 1170°C
- TCR: 10 X10-6/C
- EMF Vs Cu: -37 UV/C
- Elongation: 15~25%



More Images



Product Description

Introduction:

The NC035 CuNi30 alloy is a type of copper-nickel alloy with a composition of approximately 70% copper and 30% nickel. This alloy is known for its excellent corrosion resistance, high electrical conductivity, and thermal stability.
NC035 CuNi30 alloy is a versatile material that finds its application in a wide range of industries due to its favorable combination of properties, making it a popular choice for various engineering and industrial applications.

Application:

Heating elements: CuNi30 wire is often used in the manufacturing of heating elements for electric furnaces, ovens, and other heating devices due to its high electrical resistance and ability to withstand high temperatures.
Electrical connectors: The high electrical conductivity of CuNi30 wire makes it suitable for use in electrical connectors, terminals, and other electrical components where a stable and reliable electrical connection is required.
Marine industry: Due to its excellent resistance to seawater corrosion, CuNi30 wire is commonly used in marine applications such as shipbuilding, offshore structures, and seawater desalination plants.
Resistance wires: CuNi30 wire is also used in the production of resistance wires for applications such as resistors, heating cables, and temperature sensors due to its stable electrical resistance over a wide range of temperatures.

Advantage:

Corrosion Resistance: One of the primary advantages of NC035 CuNi30 wire is its excellent corrosion resistance, especially in marine environments and against various chemicals. This property makes it ideal for applications where exposure to corrosive elements is a concern.
High Electrical Conductivity: CuNi30 alloy exhibits high electrical conductivity, making it suitable for applications where efficient electrical conduction is required. This property allows for the effective transmission of electricity in various electrical components.
Thermal Stability: NC035 CuNi30 wire offers good thermal stability, allowing it to withstand high temperatures without losing its structural integrity. This makes it suitable for applications involving heating elements and high-temperature environments.
Ductility: CuNi30 wire is ductile, meaning it can be easily drawn into thin wires or formed into various shapes without losing its properties. This property enhances its versatility in manufacturing processes.
Non-Magnetic: CuNi30 wire is non-magnetic, which can be advantageous in applications where magnetic interference needs to be minimized or magnetic properties are undesirable.
Longevity: Due to its corrosion resistance and durable properties, NC035 CuNi30 wire has a long service life, reducing the need for frequent replacements and maintenance.
Versatility: The combination of its physical properties and advantages makes NC035 CuNi30 wire a versatile material suitable for a wide range of applications in different industries.

Parameter:

Main Chemical composition (%)

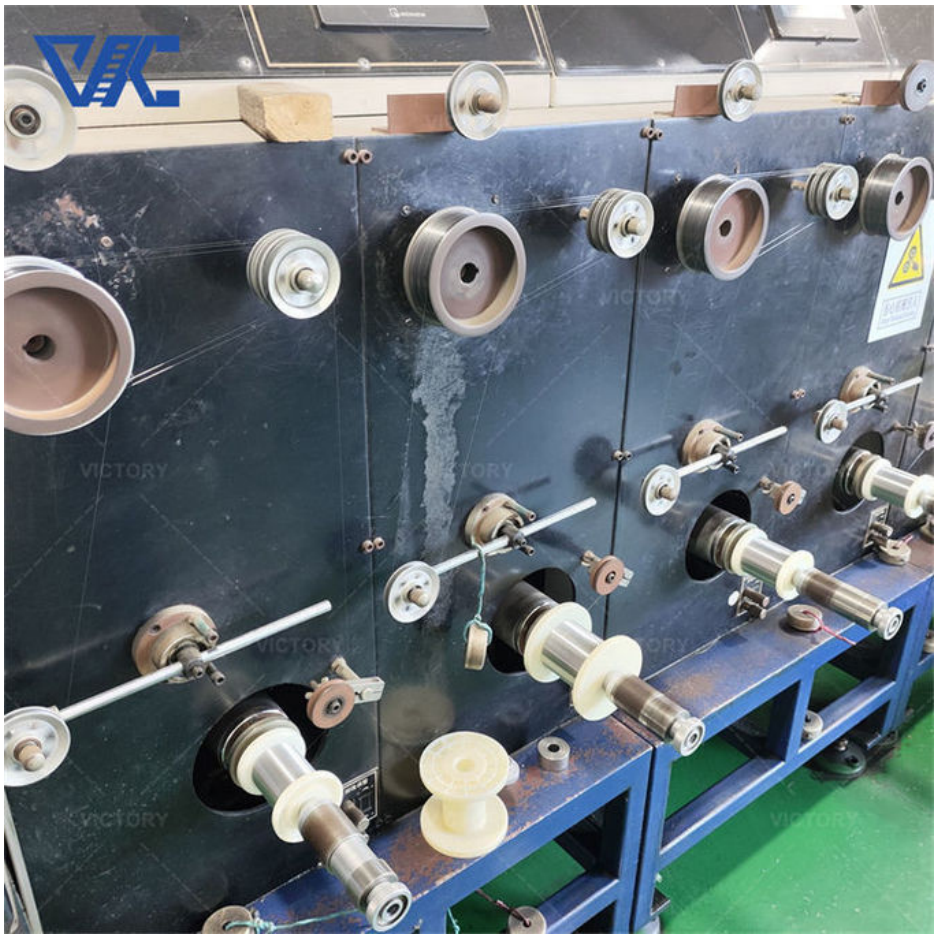
NC035 CuNi30	Copper	Nickel	Manganese
Chemical	balance	30%	1~1.5%

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 (%)
CuNi30	0.35	350	400	1170	8.9	10	-37	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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