

China

Victory

ROHS, ISO 9001

CuNi19 NC025

box, coil with polybag

300 tons per month

15~22\$/kg

Aerospace Industry Usd 0.1mm~8mm Copper Nickel Alloy NC025 Cuni19 Heating Resistance Wire

Wooden box/pallet, spool wire with carton

L/C, T/T, Western Union, MoneyGram

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 5~10kgs
- Price:
- Packaging Details:
- Delivery Time: 5-21 days
- Payment Terms:
- Supply Ability:



BLX

之德科技有限公司

Product Specification

Product Name:	Aerospace Industry Usd 0.1mm~8mm Copper Nickel Alloy NC025 Cuni19 Heating Resistance Wire
Material:	Cu/Ni/Mn
Nickel:	19%
 Resistivity: 	0.25μΩ.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:	1135°C
• TCR:	25 X10-6/C
• EMF Vs Cu:	-32 UV/C



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Introduction:

NC025 CuNi19 is a type of copper-nickel alloy that contains approximately 19% Nickel, along with other elements such as iron and manganese.

This alloy is known for its excellent corrosion resistance, particularly in marine environments where it is exposed to seawater and salt spray.

CuNi alloys like NC025 CuNi19 are commonly used in applications where resistance to corrosion and biofouling is crucial, such as in marine engineering, shipbuilding, offshore oil and gas platforms, and desalination plants. The alloy's resistance to corrosion in seawater is due to the formation of a protective oxide layer on its surface, which helps prevent further degradation. **Application:**

Marine Industry: Due to its excellent corrosion resistance, NC025 cuni19 wire is commonly used in the marine industry for components such as marine hardware, fasteners, and seawater-resistant equipment.

Chemical Processing: The corrosion resistance and thermal stability of NC025 cuni19 wire make it suitable for use in chemical processing equipment where exposure to corrosive chemicals and high temperatures is common.

Power Generation: In power generation facilities, NC025 cuni19 wire can be used for components like heat exchangers, condensers, and other equipment that require resistance to corrosion and high temperatures.

Automotive Industry: NC025 cuni19 wire can be employed in automotive applications where corrosion resistance and strength are essential, such as in exhaust systems and brake lines.

Aerospace Industry: Due to its combination of properties, NC025 cuni19 wire can also find use in the aerospace industry for applications like fuel lines, hydraulic systems, and other components requiring reliability in harsh environments.

Electrical Industry: The good electrical conductivity of NC025 cuni19 wire makes it suitable for use in electrical applications where corrosion resistance is needed, such as in wiring for marine environments or chemical plants.

Advantage:

Corrosion Resistance: NC025 cuni19 wire is known for its excellent corrosion resistance in various environments, including seawater and marine atmospheres. This makes it suitable for use in marine applications and other corrosive environments. **High Strength:** This type of wire offers high strength, which is beneficial for applications where strength and durability are important factors.

Thermal Stability: NC025 cuni19 wire exhibits good thermal stability, making it suitable for use in high-temperature applications without significant loss of properties.

Ductility: It also has good ductility, allowing for easy forming and shaping during fabrication processes.

Electrical Conductivity: Due to its composition, NC025 cuni19 wire has good electrical conductivity, which can be advantageous in certain electrical applications.

Parameter:

Main Chemical composition (%)

		()	
NC025 CuNi19	Copper	Nickel	Manganese
Chemical	balance	19%	1~1.5%

Physical Parameters:

Туре	Resistivi ty (μΩ.m2 0°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 (%)
CuNi19	0.25	300	340	1135	8.9	25	-32	15~35%

Type of product:

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



