

CuNi2/CuNi6/CuNi8/CuNi10 Copper Nickel CuNi Alloy Electric Heating Wire With Low Resistance

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Basic Information	
• Place of Origin:	China
 Brand Name: 	Victory
Certification:	CE,ROHS,ISO 9001
 Model Number: 	CuNi23 CuNi30 CuNi34 6J8 6J11
 Minimum Order Quantity: 	5
Packaging Details:	Spool package with Carton box, Coil package with polybag

5-21 days

300 tons per month

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



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14.

BLX

Product Specification

Delivery Time: Payment Terms:

• Supply Ability:

Product Name:	CuNi Wire	
Material:	Nickel Copper	V/L
Nickel(Min):	44%	
Resistivity:	0.5	
Tensile Strength:	420 MPA	
Density:	8.9 G/cm3	
Application:	Heating, Resistivity	
Condition:	Hard / Soft	
Sureface:	Bright	Sint
Delivery Time:	7-20 Days	
Maximum Temperature:	420°C	
Melting Point:	1100°C	
Highlight:	CuNi10 Electric Heating Wire, Copper Nickel CuNi Alloy Wire	

More Images



Product Description

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CUNI ALLOY WIRE

CuNi1,CuNi2,CuNi6,CuNi8,CuNi10,CuNi14,CuNi19, CuNi23,CuNi30,CuNi34,CuNi40,CuNi44,

6J8,6J11,6J12,6J13

Customized service available

Copper Nickel Alloy CuNi1 CuNi2 CuNi6 CuNi8 CuNi10 wire

Copper Nickel (CuNi) alloys are medium to low resistance materials typically used in applications with maximum operating temperatures up to 600°C (1,110°F).

With low temperature coefficients of electrical resistance, resistance, and thus performance, is consistent regardless of

temperature. Copper Nickel alloys mechanically boast good ductility, are easily soldered and welded, as well as have outstanding corrosion resistance. These alloys are typically used in high current applications requiring a high level of precision. Size dimension range:

Wire: 0.018-10mm Ribbons: 0.05*0.2-2.0*6.0mm Strip: 0.05*5.0-5.0*250mm

Туре	Electrical resistivity (20degreeΩ mm²/m)	Max. temperat ure (°c)	Tensil strengt h	Melting point (°c)	Density(g/m ³)	TCRx10 ⁻ ^{6/} °ç(20- 600°c)	-
CuNi1	0.03	200	210	1085	8.9	100	
CuNi2	0.05	200	220	1090	8.9	120	
CuNi6	0.10	220	250	1095	8.9	60	•
CuNi8	0.12	250	270	1097	8.9	57	
CuNi10	0.15	250	290	1100	8.9	50	
CuNi14	0.20	300	310	1115	8.9	30	•
CuNi19	0.25	300	340	1135	8.9	25	
CuNi23	0.30	300	350	1150	8.9	16	
CuNi30	0.35	350	400	1170	8.9	10	
CuNi34	0.40	350	400	1180	8.9	0	
CuNi44	0.50	400	420	1200	8.9	-6	

Copper-based Low Resistance Heating Wires													
Nomenclature		NC003	NC005	NC010	NC012	MC012	NC015	NC020	NC025	NC030	NC035	NC040	NC050
Performance		CuNi1	CuNi2	CuNi6	CuNi8	CuMn3	CuNi10	CuNi14	CuNi19	CuNi23	CuNi30	CuNi34	CuNi44
Main Chemical Composition (%)	Ni	1	2	6	8	-	10	14.2	19	23	30	34	44
	Mn	-	-	-	-	3	-	0.3	0.5	0.5	1	1	1
	Cu	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.
Max continuou service temp o element (ºC)	us of	-	200	220	250	200	250	300	300	300	350	350	400
Melting point (approx ºC)		1085	1090	1095	1097	1050	1100	1115	1135	1150	1170	1180	1280
Density (g/cm³)		8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Resistivity at 2 (μΩ.m)	2 0° C	0.03± 10%	0.05± 10%	0.1±10%	0.12± 10%	0.12± 10%	0.15± 10%	0.2±5%	0.25±5%	0.3±5%	0.35±5%	0.4±5%	0.50±5%
Tensile streng (Mpa)	ıth	≥210	≥220	≥250	≥270	≥290	≥290	≥310	≥340	≥350	≥400	≥400	≥420
Elongation rat (%,>Φ1.0)	e	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
TCR 10⁵/℃ (20-600⁰C)		<100	<120	<60	<57	<38	<50	<38	<25	<16	<10	0	<-6



3. Heating elements and resistors: CuNi wire is widely used as heating elements in appliances such as toasters, ovens, and electric heaters. It is also utilized in resistors for various electrical and electronic devices. Its high melting point and resistance to oxidation enable it to withstand high temperatures.

4. Marine and offshore industry: CuNi wire is commonly used in the marine and offshore industry due to its excellent resistance to seawater corrosion. It finds application in shipbuilding, offshore platforms, and marine equipment such as heat exchangers, condensers, and piping systems. 5. Automotive industry: CuNi wire is employed in the automotive industry for applications such as wiring harnesses, connectors, and sensors. Its corrosion resistance, high electrical conductivity, and thermal stability make it suitable for automotive electrical systems.

6. Coinage: CuNi wire is used in the production of coins and coinage alloys. It is often combined with other metals to create durable and corrosion-resistant coins.

7. Chemical industry: CuNi wire finds application in the chemical industry for equipment such as heat exchangers, condensers, and piping systems. Its corrosion resistance to various chemicals and seawater makes it suitable for these applications.

In summary, CuNi wire is utilized in industries ranging from electrical and electronics to marine, automotive, chemical, and jewelry. Its combination of electrical conductivity, corrosion resistance, and thermal stability makes it a versatile material for various applications.













