



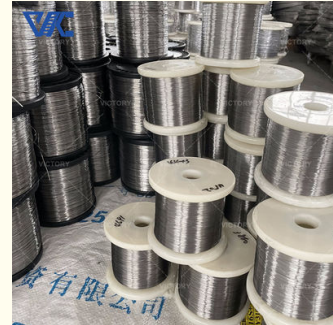
## Diameter 0.13mm Nicr9010 Nichrome Alloy Wire For Temperature Measuring

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE
- Model Number: Cr10Ni90
- Minimum Order Quantity: 5
- Packaging Details: Spool package with Carton box, Coil package with polybag for Resistance wire
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Material: Nickel, Chromium
- Nickel(Min): 89%
- Tensile Strength: 637MPA
- Magnetic Permeability: 0.78+/-0.05
- Elongation: ≥20%
- Application: Heating, Resistivity
- Condition: Hard / Soft
- Surface: Bright, Oxided, Acide
- Delivery Time: 7-20 Days
- Name: NiCr Alloy Wire
- Highlight: **Nicr9010 Nichrome Alloy Wire, Temperature Measuring Nichrome Alloy Wire, 0.13mm Nichrome Alloy Wire**



### More Images



### Product Description

#### Introduction:

Cr10Ni90 alloy wire is a high-quality nickel-based alloy wire, mainly composed of 10% chromium and 90% nickel. This alloy wire has excellent high temperature stability and oxidation resistance, making it suitable for a variety of high temperature applications. Due to its low resistivity, Cr10Ni90 alloy wire is widely used in electric

Our Product Introduction

heating devices and heating elements.

At the same time, the alloy wire also has good corrosion resistance and can resist the erosion of acidic and alkaline media, making it very popular in fields such as the chemical industry and petroleum industry.



#### Characteristic:

1. Oxidation resistance: Cr10Ni90 alloy wire has good antioxidant properties and can resist oxidation and burning damage in high temperature environments, extending its service life.
2. Thermoelectric properties: As the temperature-sensitive part of the thermocouple, Cr10Ni90 alloy wire can generate a relatively large thermoelectric potential difference, is sensitive to temperature changes, and has high measurement accuracy and stability.
3. Processing performance: Cr10Ni90 alloy wire has good processability and can be formed and processed by drawing, cold drawing, welding, etc.



#### Technical Parameters:

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35
Composición	Ni	90	Rest	Rest	55.0 61.0	34.0 37.0
	Cr	10	20.0 23.0	28.0 31.0	15.0 18.0	18.0 21.0
	Fe		≤1.0	≤1.0	Rest	Rest
Temperatura máxima °C		1300	1200	1250	1150	1100
Punto de fusion °C		1400	1400	1380	1390	1390
Densidad g/cm3		8.7	8.4	8.1	8.2	7.9
Resistividad μΩ·m,20°C		0.76±0.05	1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05
Alargamiento a la ruptura		≥20	≥20	≥20	≥20	≥20
Calor específico J/g.°C			0.44	0.461	0.494	0.5
Conductividad térmica KJ/m.h°C			60.3	45.2	45.2	43.8
Coeficiente de expansión de líneas α×10-6/(20 1000°C)			18	17	17	19
Estructura micrográfica			Austenite	Austenite	Austenite	Austenite
Propiedades magnéticas			Nonmagnetic	Nonmagnetic	Nonmagnetic	Weak magnetic

Form	Specification	
Wire	Diameter=0.025mm~8mm	
Flat wire	Width=0.40~6.0mm	Thick=0.03~0.50mm
Strip	width=8~250mm	Thick=0.05~3.0mm
Bar	Diameter=8~100mm	Long=50~1000

#### Service:

Safety is our utmost priority when it comes to our NiCr alloy heaters. We have implemented multiple safety measures, including overload protection and overheating protection, to ensure the safe and reliable operation of our heaters. You can have peace of mind knowing that our products prioritize your safety and provide a secure heating solution.



**contact us**  
**email: [victory@dlx-alloy.com](mailto:victory@dlx-alloy.com)**

Oem service:  
Welcome customized size  
We are experience factory for OEM&ODM service

**Size dimension range:**

Wire: 0.01-10mm  
Ribbons: 0.05\*0.2-2.0\*6.0mm  
Strip: 0.05\*5.0-5.0\*250mm  
NiCr series: Cr20Ni80, Cr30Ni70, Cr15Ni60, Cr20Ni35, Cr20Ni30

**Packing and Shipping:**

Sturdy cardboard boxes are used for packaging NiCr Alloy.  
Each box has dimensions of approximately 26 cm (length) x 26 cm (width) x 30 cm (height).  
The shipping method for NiCr Alloy depends on the customer's requirements.

**FAQ :**

**What is the conductivity of Cr10Ni90 alloy wire?**

Cr10Ni90 alloy wire has good electrical conductivity and can effectively convert electrical energy into thermal energy.

**What is the corrosion resistance of Cr10Ni90 alloy wire?**

Cr10Ni90 alloy wire has good corrosion resistance in general industrial environments and can resist the erosion of most chemical media and corrosives.

**Do you provide samples of Cr10Ni90 alloy wire?**

Yes, we can provide samples of Cr10Ni90 alloy wire for customers to test and evaluate.



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