



1/16" 1.6mm Nichrome 90 Wire Nickel Alloy Heating Resistance Wire Cr10Ni90 Heat Wire

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: 1.6mm Nichrome 90 Wire, Nickel Alloy Heating Resistance Wire, Cr10Ni90 Heat Wire



More Images



Product Description

1/16" 1.6mm Nichrome 90 Wire Nickel Alloy Heating Resistance Wire Cr10Ni90 Heat Wire Introduction:

Cr10Ni90 alloy wire is a high-nickel alloy wire composed of 10% chromium and 90% nickel. It has excellent high temperature stability and anti-oxidation properties and is suitable for various applications in high temperature environments. This alloy wire is often used in the manufacture of electric heating devices and electric heating elements. Due to its low resistivity, it can efficiently convert electrical energy into thermal energy. In addition, Cr10Ni90 alloy wire also has excellent corrosion resistance and can resist the erosion of acidic and alkaline media.

Compared:

Cr10Ni90 alloy wire has the following advantages compared with other metal wires:
High temperature performance: Cr10Ni90 alloy wire has good high temperature resistance and can maintain

Our Product Introduction

good stability and performance in high temperature environments.

Resistance characteristics: Cr10Ni90 alloy wire has high resistance and temperature coefficient, giving it good performance in resistors and heating elements.

Corrosion resistance: Cr10Ni90 alloy wire has good corrosion resistance, can maintain stability in some harsh environments, and prolong service life.

Thermoelectric properties: As the temperature-sensitive part of the thermocouple, Cr10Ni90 alloy wire can generate a large thermoelectric potential difference and has high measurement accuracy and stability.

Technical Parameters:

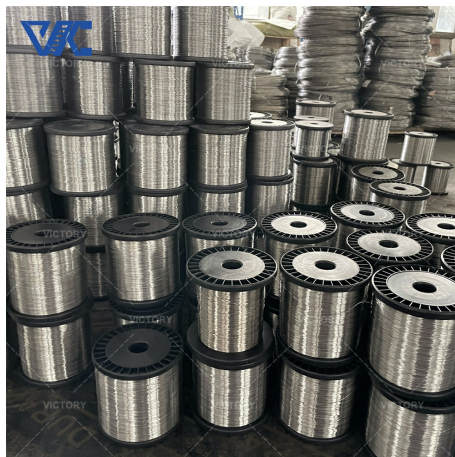


Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35
Composición	Ni	90	Rest	Rest	55.0 61.0	34.0 37.0
	Cr	10	20.0 23.0	28.0 31.0	15.0 18.0	18.0 21.0
	Fe		≤1.0	≤1.0	Rest	Rest
Temperatura máxima °C		1300	1200	1250	1150	1100
Punto de fusion °C		1400	1400	1380	1390	1390
Densidad g/cm3		8.7	8.4	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:

Our NiCr alloy heaters are fully customizable to meet your specific requirements. Whether you need them in different sizes, shapes, or power outputs, we can design and manufacture them accordingly to ensure optimal performance and effectiveness. Additionally, we offer comprehensive technical support and after-sales service to guarantee your satisfaction and the long-term reliability of our products.



contact us
email: 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:

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 boxes are designed to provide protection to the contents during transportation.
A plastic wrap is used to seal the boxes, ensuring that the contents are shielded from dust and moisture.
The boxes are labeled with important information, including the product name, quantity, and destination.

FAQ :

How to detect the quality of Cr10Ni90 alloy wire?

We use a variety of methods to detect the quality of Cr10Ni90 alloy wire, including resistivity testing, tensile strength testing, metallographic analysis, etc.

What is the high temperature resistance of Cr10Ni90 alloy wire?

Cr10Ni90 alloy wire has excellent high temperature resistance, usually reaching temperatures above 1000 degrees Celsius.

Do you provide a quality certificate for Cr10Ni90 alloy wire?

Yes, we can provide quality certificates for Cr10Ni90 alloy wire, including chemical composition, mechanical properties and other related test reports.



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