



Resist Wire Cr10Ni90 Nickel Chromium Alloy Corrosion Resistance Nichrome Wire

Our Product Introduction

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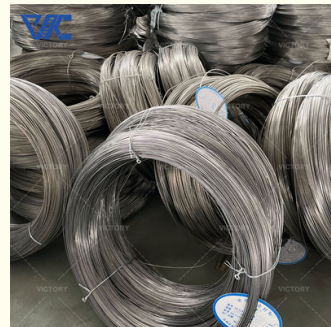
Basic Information

- 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: **Cr10Ni90 Nickel Chrome Alloy, Corrosion Resistance Nickel Chromium Alloy, 89% Nickel NiCr Alloy Wire**



More Images



Product Description

Resist Wire Cr10Ni90 Nickel-Chromium Alloy Corrosion Resistance Nichrome Wire

Introduction:

Cr10Ni90 alloy wire is a nickel-based alloy containing 10% chromium and 90% nickel. This alloy wire has excellent corrosion resistance and oxidation resistance, making it ideal for use in a variety of corrosive environments and high temperature conditions. It is widely used in the chemical industry, oil and gas industry,

Our Product Introduction

and aerospace.

In addition, Cr10Ni90 alloy wire also has good mechanical properties and processability, making it easy to manufacture and process products of various shapes and sizes.

Application of Cr10Ni90 alloy wire in thermocouples:

A thermocouple is a commonly used temperature measurement device that uses the principle of the thermoelectric effect to measure the temperature of an object.

Cr10Ni90 alloy wire can be used as the temperature-sensitive part of the thermocouple, and is usually connected with another metal wire (such as commonly used copper, iron, chromium, etc.) to form a thermocouple loop. Cr10Ni90 alloy wire has high resistance and temperature coefficient, allowing it to generate a large thermoelectric potential difference in high temperature environments. By measuring the voltage signal in the thermocouple loop, the temperature of the object being measured can be deduced.

Cr10Ni90 alloy wire has some advantages as the temperature-sensitive part of the thermocouple, such as good high temperature resistance, lower drift and higher measurement accuracy.



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:

We are committed to ensuring that our customers are satisfied with their purchases and building a good relationship. To this end, we provide comprehensive nickel-chromium alloy technical support and services. Our experienced technical team will provide customers with various services such as installation, maintenance, troubleshooting, and answer any questions they may have about the product.



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 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 :

Can Cr10Ni90 alloy wire be customized?

Yes, we provide customized services for Cr10Ni90 alloy wire and customize manufacturing according to customer needs.

What is the diameter range of Cr10Ni90 alloy wire?

The diameter range of Cr10Ni90 alloy wire is usually between 0.01mm and 5.0mm, and the specific size can be customized according to customer requirements.

What is the resistance value of Cr10Ni90 alloy wire?

The resistance value of Cr10Ni90 alloy wire is usually between 1.09Ω/mm and 0.12Ω/mm, and the specific value depends on factors such as diameter and length.



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