



High Temperature Resistance Cr10Ni90 Nichrome Alloy Wire For Industrial Furnaces And Heaters

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: Industrial Furnaces Nichrome Alloy Wire, Cr10Ni90 Nichrome Alloy Wire, High Temperature Resistance Nichrome Alloy Wire



More Images



Product Description

High-Temperature Resistance Of Cr10Ni90 Nichrome Alloy Wire For Industrial Furnaces And Heaters

Introduction:

Cr10Ni90 nickel-chromium alloy wire is a high-performance resistance heating material, mainly composed of 90% nickel and 10% chromium, with excellent high-temperature strength, oxidation resistance and corrosion resistance. The maximum operating temperature of this alloy wire can reach 1300°C, the melting point is about 1400°C, the density is 8.7 g/cm³, and the resistivity is 1.09±0.05 μΩ·m at 20°C. Its good ductility and welding properties make it easy to process into heating elements of different shapes. Cr10Ni90 alloy wire is widely used in industrial furnaces, heaters and other high-temperature equipment, especially suitable for use in high temperature and corrosive environments.

Applications:

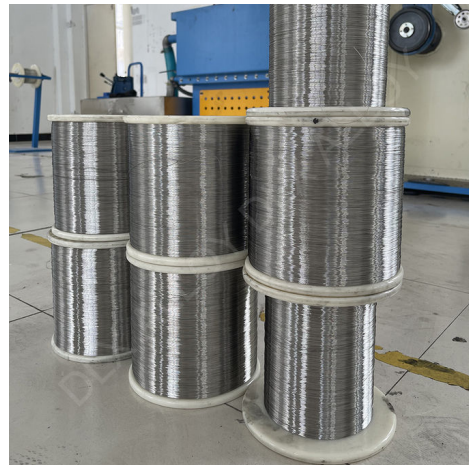
Our Product Introduction

Electric heating elements: widely used in the manufacture of electric heating wires, electric heating rods, etc., and applied to heating equipment such as electric kettles, ovens, and industrial furnaces.
 Industrial heating equipment: used for high-temperature heaters, heat treatment equipment, etc. in the chemical and petroleum industries.
 Resistor elements in corrosion-resistant environments: suitable for heating equipment under complex conditions such as seawater and acidic environments.
 Electronic and electrical fields: used to manufacture components such as resistors and potentiometers.
 Thermocouple materials: can be used for temperature measurement and control equipment.

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 a×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:

By choosing our NiCr alloy heaters, you gain access to a heating solution that combines efficiency, reliability, and flexibility. We are committed to delivering top-quality products and services that enhance your production efficiency and reduce energy consumption. With our heaters, you can expect outstanding performance and a customized approach to meet your heating needs.

contact us
email:victory@dix-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.



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