



Chemical Industry Cr10Ni90 Nichrome Alloy Resistance Strip With Stable Electrical Resistivity

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Cr10Ni90
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Spool package with Carton box, Coil package with polybag for Resistance wire
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



Product Specification

- Product Name: Nichrome Alloy Strip
- Material: Nickel, Chromium
- Nickel(Min): 89%
- Tensile Strength: 637MPA
- Magnetic Permeability: 0.78+/-0.05
- Elongation: ≥20%
- Condition: Hard / Soft
- Application: Corrosion Resistant Equipment, High-temperature Heating Equipment, Electrolytic Cells, And Electrochemical Equipment, Etc
- Highlight: **Chemical Industry Nichrome Alloy Resistance Strip**
, Cr10Ni90 Nichrome Alloy Resistance Strip,
Stable Electrical Resistivity Nichrome Alloy



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Product Description

Chemical Industry Cr10Ni90 Nichrome Alloy Resistance Strip With Stable Electrical Resistivity

Product Description:

Cr10Ni90 NiCr alloy strip, with at least 89% nickel content, has been cast into an electric heating alloy material that can maintain excellent corrosion and high temperature resistance even in extreme environments. This high-performance strip has a tensile strength of 637MPa and an elongation of over 20%, ensuring its reliability and flexibility in mechanical processing and application processes. Its magnetic permeability is 0.78+/-0.05, exhibiting stable electromagnetic characteristics. Cr10Ni90 alloy strip provides two processing states, hard and soft, suitable for various complex forming needs. Widely used in corrosion-resistant equipment, high-temperature heating equipment, electrolytic cells, and electrochemical equipment, etc, Cr10Ni90 nickel chromium alloy strip has become an ideal choice for chemical, electrochemical, and high-temperature industrial applications due to its excellent physical and chemical properties, providing an efficient and durable solution for modern industry.

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: Cr10Ni90, Cr20Ni80, Cr30Ni70, Cr15Ni60, Cr20Ni35, Cr20Ni30

Technical Parameters:

Performance material		Cr10Ni90
Composición	Ni	90
	Cr	10
	Fe	
Temperatura máxima °C		1300
Punto de fusion °C		1400
Densidad g/cm3		8.7
Resistividad $\mu\Omega\cdot m, 20^{\circ}C$		0.76±0.05
Alargamiento a la ruptura		≥20
Calor específico J/g. °C		
Conductividad térmica KJ/m.h °C		
Coeficiente de expansión de líneas $\alpha \times 10^{-6}/(20\ 1000^{\circ}C)$		
Estructura micrográfica		
Propiedades magnéticas		

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

Characteristics:

Excellent corrosion resistance: The high nickel content and reasonable alloy ratio endow it with excellent corrosion resistance, which can maintain stability in various corrosive media.

High temperature stability: suitable for high-temperature heating environments, able to maintain stable performance, not easily deformed or oxidized.

Excellent mechanical performance: With high strength and good ductility, it can adapt to diverse process requirements.

Excellent magnetic properties: Stable magnetic permeability, suitable for special processes that require magnetic materials.

High temperature strength: Maintaining strength at high temperatures, suitable for long-term continuous heating.

Application:

In the chemical industry, Cr10Ni90 nickel chromium alloy strip has various specific applications:

Corrosion resistant equipment manufacturing: Many processes in the chemical industry require the use of corrosion-resistant equipment to handle corrosive substances or work under harsh environmental conditions. Cr10Ni90 nickel chromium alloy strip, due to its high nickel content and oxidation resistance, can maintain stability in various corrosive media. It is commonly used in the manufacturing of corrosion-resistant heating elements, heating tubes, reactors, and other chemical equipment.

High temperature heating equipment: In chemical processes, some processes need to be carried out at high temperatures, such as catalytic reactions, high-temperature drying, etc. Due to its high temperature stability and excellent oxidation resistance, Cr10Ni90 alloy strip is often used to manufacture heating elements for high-temperature heating equipment, such as heating tubes and furnace heaters.

Electrolytic cells and electrochemical equipment: In the electrochemical industry, electrolytic cells are common equipment used for electrolyzing metals, preparing chemicals, etc. The high resistivity and corrosion resistance of Cr10Ni90 nickel chromium alloy strip make it one of the ideal materials for electrolytic cells, used as a heating element to provide the required heating energy.

Heat transfer in corrosive media: In chemical processes, sometimes it is necessary to heat or cool corrosive media. The corrosion resistance and thermal conductivity of Cr10Ni90 alloy strip make it suitable for heat transfer in corrosive media, such as used as a heating element in heat transfer equipment in chemical reactors.

In summary, Cr10Ni90 nickel chromium alloy strip is widely used in the chemical industry in the manufacturing of corrosion-resistant equipment, high-temperature heating equipment, electrochemical equipment, and heat transfer of corrosive media, providing reliable heating solutions and material selection for chemical processes.

FAQ :

How is the corrosion resistance of this alloy strip?

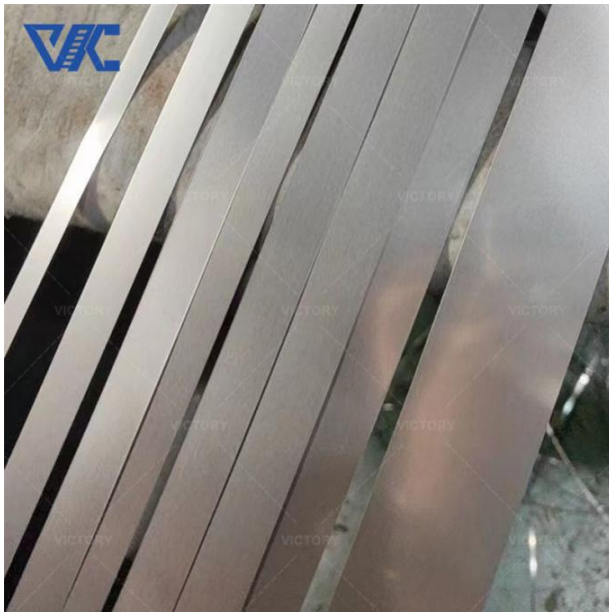
Cr10Ni90 alloy strip has excellent corrosion resistance and can maintain stability in various corrosive media.

What temperature range is it suitable for?

Cr10Ni90 alloy strip is suitable for high-temperature heating environments and can work stably in a higher temperature range.

What are the advantages of this material in manufacturing corrosion-resistant equipment?

Cr10Ni90 alloy strip has a high nickel content and excellent corrosion resistance, making it an ideal material for manufacturing corrosion-resistant equipment, and can be used stably in corrosive media for a long time.



Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu