



## Vacuum Furnace And High Temperature Furnace Fields Cr20Ni35 Nickel Chromium Strip With High Temperature Resistance

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Cr20Ni35
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Plastic film or waterproof woven bag inside, wire packed in spool put into carton,coil wire or strip wire put into wooden case
- 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: Resistance Heating Wire
- Material: Nickel, Chromium
- Nickel(Min): 32%
- Resistivity: 1.00+/-0.05
- Tensile Strength: 637MPA
- Elongation: ≥20%
- Condition: Hard / Soft
- Surface: Bright, Oxided, Acide
- Application: Heating Element, Furnace Lining, High-temperature Bracket, Resistance Tape
- Highlight: **High Temperature Resistance Nickel Chromium Strip**  
, Vacuum Furnace Nickel Chromium Strip,  
Cr20Ni35 Nickel Chromium Strip



### More Images



### Product Description

## Vacuum Furnace And High-Temperature Furnace Fields Cr20Ni35 Nickel Chromium Strip With High Temperature Resistance

### Product Description:

Cr20Ni35 alloy strip is a widely used material in vacuum furnaces and high-temperature furnaces, with excellent performance parameters. This alloy strip is a high-performance alloy material designed specifically for extreme heating environments, containing 20% chromium and 35% nickel, with a margin of iron. The resistivity is 1.00+/-0.05. Its tensile strength reaches 637MPa, elongation ≥ 20%, and it can provide both hard and soft states. The surface treatment can be glossy, oxidized, or acid treated. Cr20Ni35 alloy strips are widely used in heating elements, furnace linings, high-temperature supports, and resistance bands of vacuum furnaces and high-temperature furnaces, playing a role in high-temperature environments due to their reliability and efficiency. Cr20Ni35 alloy strip can withstand harsh heating conditions while maintaining its structural integrity and heating efficiency, making it an ideal choice for modern industrial heat treatment equipment.

### 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		Cr20Ni35
Composición	Ni	34.0 37.0
	Cr	18.0 21.0
	Fe	Rest
Temperatura máxima °C		1100
Punto de fusion °C		1390
Densidad g/cm3		7.9
Resistividad μΩ·m,20°C		1.00±0.05
Alargamiento a la ruptura		≥20
Calor específico J/g. °C		0.5
Conductividad térmica KJ/m.h°C		43.8
Coeficiente de expansión de líneas α×10-6/(20 1000°C)		19
Estructura micrográfica		Austenite
Propiedades magnéticas		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

### Characteristic advantages

High temperature resistance: able to operate stably at temperatures up to 1200 ° C and maintain good performance in long-term high-temperature environments, suitable for various high-temperature furnace applications.

Corrosion resistance: The addition of chromium improves the corrosion resistance of the alloy, making it suitable for environments containing corrosive gases. Has strong corrosion resistance to oxidizing atmospheres and some corrosive media, and can maintain a good surface condition.

Resistance stability: exhibits stable electrical resistivity over a wide temperature range, ensuring consistent performance of heating elements.

Mechanical strength: It has high mechanical strength and can withstand mechanical loads during heat treatment.

Processing performance: Easy to process into the desired shape and size, meeting the customization needs of specific industrial equipment.

### Applications

Vacuum furnace heating element: Cr20Ni35 alloy strip is commonly used as a heating element in vacuum furnaces, such as vacuum heat treatment furnaces, vacuum annealing furnaces, etc., for high-temperature material treatment and experiments.

High temperature furnace heating element: Due to its excellent high-temperature stability, Cr20Ni35 alloy strips are also widely

used as heating elements in various high-temperature furnaces, such as high-temperature oxidation furnaces, high-temperature soaking furnaces, etc.

Furnace lining: used for manufacturing furnace lining, withstanding the dual test of high temperature and corrosive environment.

Thermocouple protection tube: As a protective tube for thermocouples, it ensures the stability and safety of thermocouples at high temperatures.

High temperature support: used to support workpieces in high-temperature furnaces, capable of withstanding high temperatures and heavy loads.

Resistance tape: used as a resistance tape to accurately control the temperature inside the furnace.

## Q&A

Q1: What are the main advantages of Cr20Ni35 alloy strips in high-temperature furnace applications?

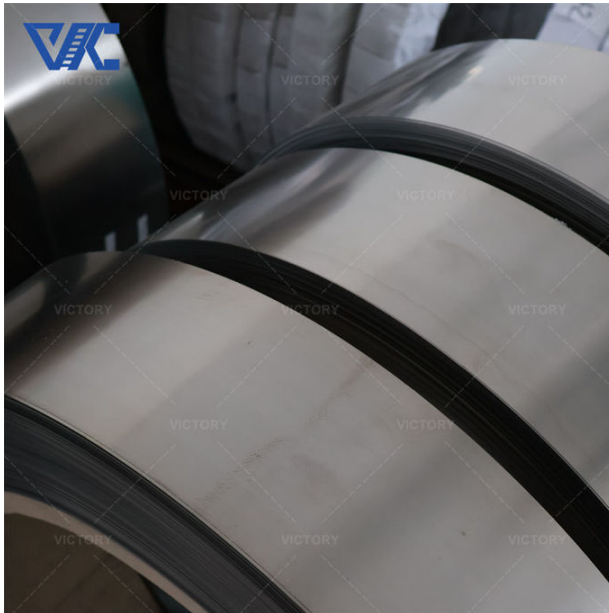
A1: The main advantage is its excellent high-temperature resistance and corrosion resistance, ensuring long-term stability and durability in high-temperature furnaces.

Q2: Is Cr20Ni35 alloy strip suitable for vacuum environment?

A2: Yes, Cr20Ni35 alloy strip is very suitable for vacuum environments because it can maintain its performance in vacuum without being affected.

Q3: Do vacuum furnaces and high-temperature furnaces using Cr20Ni35 alloy strips require special maintenance?

A3: Due to its high stability, it usually does not require special maintenance. But regular inspection and cleaning can extend the service life of the equipment and maintain optimal performance.



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