



Cr20Ni80 Ni80Cr20 Nickel Chromium Alloy 80 20 Heating Element Strip

Our Product Introduction

for more products please visit us on victory-alloy.com

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO9001 CE
- Model Number: Cr20Ni80
- Minimum Order Quantity: 5
- Price: 5-100KG \$20-\$30
- 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): 77%
- Resistivity: 1.09+/-0.05
- Tensile Strength: 637MPA
- Elongation: ≥20%
- Application: Heating, Resistivity
- Condition: Hard / Soft
- Surface: Bright, Oxided, Acide
- Delivery Time: 7-20 Days
- Dimensions: Customized, 0.05-12mm, Nichrome Strip
Ni80Cr20 Nickel Chrome Alloy
- Highlight: **Cr20Ni80 Heating Element Strip,
Ni80Cr20 Nickel Chromium Alloy Strip,
Ni80Cr20 Heating Element Strip**



More Images



Our Product Introduction

Product Description

1. Ni80Cr20 strip, also known as Nichrome strip, is a type of resistance heating alloy made of 80% nickel and 20% chromium. This alloy is widely used in the manufacturing of heating elements due to its excellent resistance to oxidation, high melting point, and ability to generate heat efficiently. Ni80Cr20 strip is commonly used in applications such as electric ovens, toasters, industrial furnaces, and other heating devices where high temperatures are required. Its properties make it a reliable and durable material for various heating applications.

2. Main Types of Nickel chrome alloys: Ni80Cr20, Ni70Cr30, Ni60Cr15, Ni35Cr20, Ni30Cr20
FeCrAl alloy: 0Cr25Al5, 0Cr23Al5, 0Cr21Al4, 0Cr27Al7Mo2, 0Cr21Al6Nb, 0Cr21Al6.
Copper nickel alloy: CuNi1, CuNi2, CuNi6, CuNi8, CuNi10, CuNi23, CuNi30, CuNi44

3. The size of Ni80Cr20 strip can vary depending on the manufacturer and the specific requirements of the application. Common sizes for Ni80Cr20 strips include:

Thickness: Typically ranges from 0.1 mm to 5 mm

Width: Usually varies from 1 mm to 100 mm



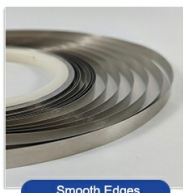
| Performance material | | Cr10Ni90 | Cr20Ni80 | Cr30Ni70 | Cr15Ni60 | Cr20Ni35 | Cr20Ni30 |
|--|----|----------|--------------|--------------|--------------|---------------|---------------|
| Composition | Ni | 90 | Rest | Rest | 55.0~61.0 | 34.0~37.0 | 30.0~33.0 |
| | Cr | 10 | 20.0~23.0 | 28.0~31.0 | 15.0~18.0 | 18.0~21.0 | 18.0~21.0 |
| | Fe | | ≤1.0 | ≤1.0 | Rest | Rest | Rest |
| Maximum temperature °C | | 1300 | 1200 | 1250 | 1150 | 1100 | 1100 |
| Melting point °C | | 1400 | 1400 | 1380 | 1390 | 1390 | 1390 |
| Density g/cm3 | | 8.7 | 8.4 | 8.1 | 8.2 | 7.9 | 7.9 |
| Resistivity at 20°C(μΩ·m) | | | 1.09±0.05 | 1.18±0.05 | 1.12±0.05 | 1.00±0.05 | 1.04±0.05 |
| Elongation at rupture | | ≥20 | ≥20 | ≥20 | ≥20 | ≥20 | ≥20 |
| Specific heat J/g.°C | | | 0.44 | 0.461 | 0.494 | 0.5 | 0.5 |
| Thermal conductivity KJ/m.h°C | | | 60.3 | 45.2 | 45.2 | 43.8 | 43.8 |
| Coefficient of lines expansion α×10-6/ (20~1000°C) | | | 18 | 17 | 17 | 19 | 19 |
| Micrographic structure | | | Austenite | Austenite | Austenite | Austenite | Austenite |
| Magnetic properties | | | Non-magnetic | Non-magnetic | Non-magnetic | Weak magnetic | Weak magnetic |

Product Details

High-quality materials and surface treatment technology



Metallic Luster



Smooth Edges



Product Comparison

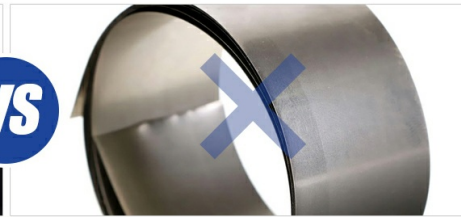
The quality of our products has been strictly tested and guaranteed



OTHERS



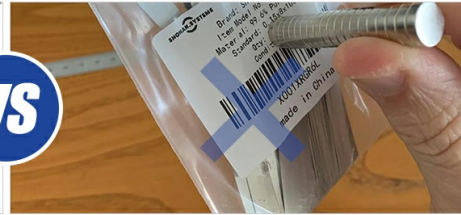
Smooth Edges



Uneven Edges



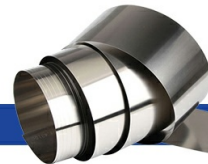
Standard Material Content



Substandard Products

Application Field

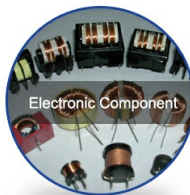
Nichrome strips are widely used in many fields



Heating Device



Resistive Element



Electronic Component



Welding Materials



Chemical Equipment



Auto Industry



Medical Instruments



Solar Battery

Product Process

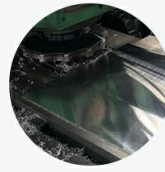
The production process and technology used in the product



1 Ingredients



2 Smelting



3 Milling/Planing



4 Hot-rolling



5 Bell Annealing



6 Cleaning



7 Cold-rolling



8 Bright Annealing



9 Finish-rolling



10 Slitting



11 Final Test



12 Packaging

Product Comparison

The quality of our products has been strictly tested and guaranteed



Measuring Instrument



Composition Detection



Composition Detection



Micro Hardness Tester



Micro Hardness Tester



Tensile Test Equipment

OEM Services

We can provide customized services for customers

Product Customization

Thickness:0.5-2.5mm Width:5-40mm

We can customize nichrome strips of different thickness and width for customers.



Label Customization



We can provide label customization service for customers' products.

Recommended Products

Click to learn more about related products



Nickel Bar



Nickel Tube



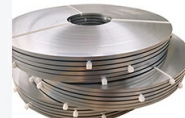
Nickel Strip



Monel Strip



Nickel Wire



Inconel Strip

FAQ

Q:What products does your factory specialize in manufacturing?

A: We mainly produce in different resistance alloy, like Fecral/Nichrome/Inconel/ pure nickel material

Q: What quality control measures do you have in place?

A: We have own quality control team, and ISO certification.

Q:What are your payment terms and accepted payment methods?

A: 30% deposit and the balance will be paid before shipment.



Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

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