



## 200 Mpa - 300 Mpa Yield Strength Nichrome Alloy With 15-20 W/mK Thermal Conductivity In Ni Cr Fe Composition

Our Product Introduction

### Basic Information

- Place of Origin: China JiangSu
- Brand Name: Victory alloy
- Certification: CE
- Model Number: Nichrome
- 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

- Magnetic Properties: Non-magnetic
- Elongation: 20-30%
- Density: 8.4 G/cm<sup>3</sup>
- Yield Strength: 200-300 MPa
- Thermal Conductivity: 15-20 W/mK
- Chemical Composition: Ni-Cr-Fe
- Hardness: HV400-500
- Name: Nichrome Alloy
- Highlight: **200 Mpa Yield Strength Nichrome Alloy,**  
**300 Mpa Yield Strength Nichrome Alloy**

for more products please visit us on [victory-alloy.com](http://victory-alloy.com)

## Product Description

### Product Description:

One of the key benefits of Nichrome wire is its high tensile strength, which ranges from 400-500 MPa. This means that it can withstand a significant amount of stress without breaking or deforming, making it ideal for use in heating elements and other applications that require durability and reliability.

The chemical composition of Nichrome wire is primarily made up of Ni-Cr-Fe, which gives it its unique properties. The nickel content helps to provide resistance to corrosion, while the chromium content gives it high heat resistance and oxidation resistance. The iron content helps to provide strength and stability to the wire.

Another important attribute of Nichrome wire is its thermal expansion, which ranges from 13-17  $\mu\text{m/mK}$ . This means that it can expand and contract with changes in temperature without breaking or becoming damaged. This is particularly important in heating applications where the wire is subjected to high temperatures and thermal cycling.

In addition to its high tensile strength and excellent chemical composition, Nichrome wire also has a high elongation of 20-30%. This means that it can stretch without breaking, which is important in heating applications where the wire is subjected to repeated stress and strain.

Finally, it is worth noting that Nichrome wire is non-magnetic in nature, which makes it ideal for use in applications where magnetic properties are undesirable. This can include everything from heating elements for industrial ovens and furnaces to electrical components for sensitive electronic devices.

In summary, if you are looking for a durable, reliable, and high-performance heating element, then Nichrome Alloy is an excellent choice. With its high tensile strength, excellent chemical composition, thermal expansion, elongation, and non-magnetic properties, it is well-suited to a wide range of industrial and commercial applications. Whether you are looking for heating elements for your laboratory, manufacturing facility, or commercial kitchen, Nichrome wire is a versatile and cost-effective solution that you can rely on.

### Features:

Product Name: Nichrome Alloy

Applications: Heating Elements, Furnaces, Electrical Components

Electrical Resistivity: 1.1-1.2  $\mu\Omega\text{m}$

Corrosion Resistance: Excellent

Melting Point: 1400-1450°C

Forms: Wire, Sheet, Strip, Rod, Tube

### Technical Parameters:

Technical Parameters	Value
Magnetic Properties	Non-magnetic
Thermal Expansion	13-17 $\mu\text{m/mK}$
Electrical Resistivity	1.1-1.2 $\mu\Omega\text{m}$
Applications	Heating Elements, Furnaces, Electrical Components
Chemical Composition	Ni-Cr-Fe
Melting Point	1400-1450°C
Forms	Wire, Sheet, Strip, Rod, Tube
Corrosion Resistance	Excellent
Tensile Strength	400-500 MPa
Yield Strength	200-300 MPa

### Applications:

The Nichrome product is non-magnetic and comes in various forms such as wire, sheet, strip, rod, and tube. With a melting point of 1400-1450°C, this product is perfect for high-temperature applications. In addition, it has excellent corrosion resistance, making it a reliable choice for products that will be exposed to harsh environments. The thermal conductivity of Nichrome ranges from 15-20 W/mK, making it great for use in heating applications.

One of the most popular forms of the Nichrome product is Nichrome coil. This coil is used in a variety of products such as heating elements in ovens, toasters, and hair dryers. The coil is made of Nichrome wire which is known for its high resistance to corrosion and oxidation. The wire is also used in the production of heating elements for industrial furnaces and kilns.

Overall, Nichrome is a versatile product that can be used in a wide range of product application occasions and scenarios. Its non-magnetic properties, excellent corrosion resistance, and high melting point make it a reliable choice for high-temperature and harsh environments. Victory Alloy's Nichrome product is a great choice for those looking for a high-quality and reliable product.

### Customization:

Victory alloy provides product customization services for Nichrome alloy, model number Nichrome. Our products are manufactured in China JiangSu and are certified with CE. The minimum order quantity is 5 and packaging details include spool package with carton box, coil package with polybag for resistance wire. Delivery time ranges from 5-21 days and payment terms accepted include L/C, T/T, Western Union, and MoneyGram. Our supply ability is 300 tons per month with a hardness of HV400-500 and thermal expansion of 13-17  $\mu\text{m/mK}$ . Our Nichrome coil has excellent corrosion resistance and is available in forms such as wire, sheet, strip, rod, and tube. The elongation of our product is 20-30%. Our Nichrome coil is also known as Cr20Ni80.

### Support and Services:

The Nichrome Alloy product is designed to provide high resistance and high temperature capabilities for use in applications such as heating elements, resistance wires, and electrical contacts.

Our technical support team is available to assist with any questions or concerns regarding the selection, installation, and maintenance of the Nichrome Alloy product.

In addition, we offer a range of services including custom alloy development, material testing, and failure analysis to ensure the highest level of performance and reliability for our customers.

### Packing and Shipping:

Product Packaging:

The Nichrome Alloy product will be securely packed in a sturdy cardboard box to ensure safe transport. The box will be labeled with the product name and specifications for easy identification. Inside the box, the product will be further protected with bubble wrap or foam padding to prevent any damage during transit.

Shipping:

We offer worldwide shipping for the Nichrome Alloy product. The shipping cost and delivery time will depend on the destination and the shipping method selected at checkout. We have a variety of shipping options available to suit your needs, including standard, express, and expedited shipping.



**Changzhou Victory Technology Co., Ltd**



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

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