Wholesale Price Bright Color Nichrome Alloy Cr20Ni80 Wire For Electrical Heating Elements

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE
- Model Number: Cr20Ni80
- 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): 77%
- Resistivity: 1.09+/-0.05
- Tensile Strength: 637MPA
- Elongtation: ≥20%
- Application: Heating, Resistivity
- Condition: Hard / Soft
- Sureface: Bright, Oxided, Acide
- Delivery Time: 7-20 Days
- Name: Resistance Wire
- Highlight: **Cr20Ni80 Resistance Winding**, **Resistance Winding Non Magnetic**, **Cr20Ni80 nickel chromium heating wire**

More Images

Our Product Introduction

Product Description

Nichrome Cr20Ni80 Cr10Ni90 Cr15Ni60 Cr30Ni70 Cr20Ni30 Electric Heating Resistance Wire Coil For Vapes

NiCr Series

Nichrome wire is a non-magnetic alloy that is primarily composed of nickel, chromium, and iron. It is a highly useful material due to its unique properties, such as high resistivity and good oxidation resistance. The high resistivity of nichrome wire allows it to resist the flow of electrical current, which makes it an excellent choice for use in electrical devices that require thermal action, such as heat guns and industrial hair dryers.

Nichrome wire also has excellent ductility after use and weldability, which means that it can be easily shaped and formed into various shapes and sizes, and can be easily welded together to form larger structures. This makes it an ideal choice for manufacturing heating elements for laboratory and industrial electric furnaces, water heating systems, high-value electrical resistors, heating cords, and cables.

Furthermore, nichrome wire has good oxidation resistance, which allows it to withstand high temperatures and prevents it from corroding over time. This makes it an ideal choice for use in applications that require high-temperature resistance.

In conclusion, nichrome wire is a versatile and reliable material that is essential in many industries. Its unique combination of properties makes it an ideal choice for applications that require high-temperature resistance, electrical resistance, and ductility.

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

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 especifico 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

NiCr 80/20 is suitable for heating elements used for temperatures upto 1200°C. This is used for electrical cooking equipment, precison resistors. Oxidized wires of these alloys display better insulation properties.

NiCr 70/30 is suitable for heating elements used for temperatures upto 1230°C for industrial furnaces which have alternating oxidizing, or reducing atmosphere. This alloy has excellent corrosion resistance and long life in air and controlled atmospheres.

NiCr 60/15 is suitable for heating elements used for temperatures upto 1150°C. This is used for electrically heated equipment, high resistance and potientiometer resistors.

NiCr 30/20 is suitable for heating elements used for temperatures upto 1050°C. Inspite of relatively high Fe content, these alloys are resistant to oxidation and chemical corrosion. They are used for making heating elements of cooking equipment, heating cords and cables.

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