Cr20Ni70 Nichrome Wire Heating Coil

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE
- Model Number: Cr20Ni70
- 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

- Max. Continuous Service Temp. Of Element(ºC): 1100
- Melting Point: 1390
- Resistivity: 1.04±0.05
- Density(g/cm3): 7.9
- Thermal Conductivity (KJ/m·h·ºC): 43.8
- Coefficient Of Lines Expansion(α×10-6/ºC): 19
- Melting Point Approx.(ºC): 1390
- Elongation At Rupture(%): >20
- Highlight: **Cr20Ni70 nichrome wire heating coil**, **nichrome wire heating coil**, **Cr20Ni70 nickel chrome wire heating**

Our Product Introduction

Product Description

Cr20Ni70 Heating Nichrome Wire Strip Ribbon Resistance Wire Coil

NiCr Series

Cr20Ni70 is an exceptional material that offers a range of desirable properties, making it an ideal choice for various applications. It is known for its excellent ductility, workability, and weldability, even under high temperatures and seismic stress. This material is particularly useful in situations where high strength and durability are crucial.

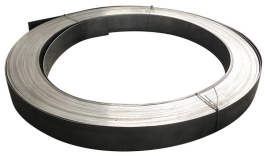
One of the key features of Cr20Ni70 is its high and stable resistance to corrosion. This makes it an excellent choice for applications where the material will be exposed to harsh environments or corrosive substances. Additionally, the material has outstanding surface oxidation resistance, making it suitable for use in high-temperature settings.

Another advantage of Cr20Ni70 is its exceptional coil-forming ability. This property makes it easy to shape and mold the material into various forms and shapes, making it highly versatile and useful in a wide range of applications.
Overall, Cr20Ni70 is a highly desirable material that offers a range of properties that make it an excellent choice for various industrial and commercial applications. Its high strength, durability, and resistance to corrosion and oxidation make it an ideal choice for use in harsh environments, while its excellent coil-forming ability makes it easy to work with and shape to meet specific needs.

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35	C
Composition	Ni	90	Rest	Rest	55.0~61.0	34.0~37.0	3(
	Cr	10	20.0~23.0	28.0~31.0	15.0~18.0	18.0~21.0	1{
	Fe		≤1.0	≤1.0	Rest	Rest	R
Maximum temperature℃		1300	1200	1250	1150	1100	1
Meltiing point ℃		1400	1400	1380	1390	1390	1
Density g/cm3		8.7	8.4	8.1	8.2	7.9	7.
Resistivity at 20℃((μΩ·m)			1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05	1.
Elongation at rupture		≥20	≥20	≥20	≥20	≥20	≥
Specific heat J/g.℃			0.44	0.461	0.494	0.5	0.
Thermal conductivity KJ/m.h℃			60.3	45.2	45.2	43.8	4
Coefficient of lines expansion a×10-6/ (20~1000℃)			18	17	17	19	1
Micrographic structure			Austenite	Austenite	Austenite	Austenite	A
Magnetic properties			Non-magnetic	Non-magnetic	Non-magnetic	Weak magnetic	W
Micrographic structure		Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	F
Magnetic properties		Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	M

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

Size Range		
Wire	dia 0.03-7.5mm	
	dia 8.0-12.0mm	

Ribbon	(0.05-0.35)*(0.5-6.0)mm	
Strip	(0.50-2.5)*(5-180)mm	
Rod	8-50mm	

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.

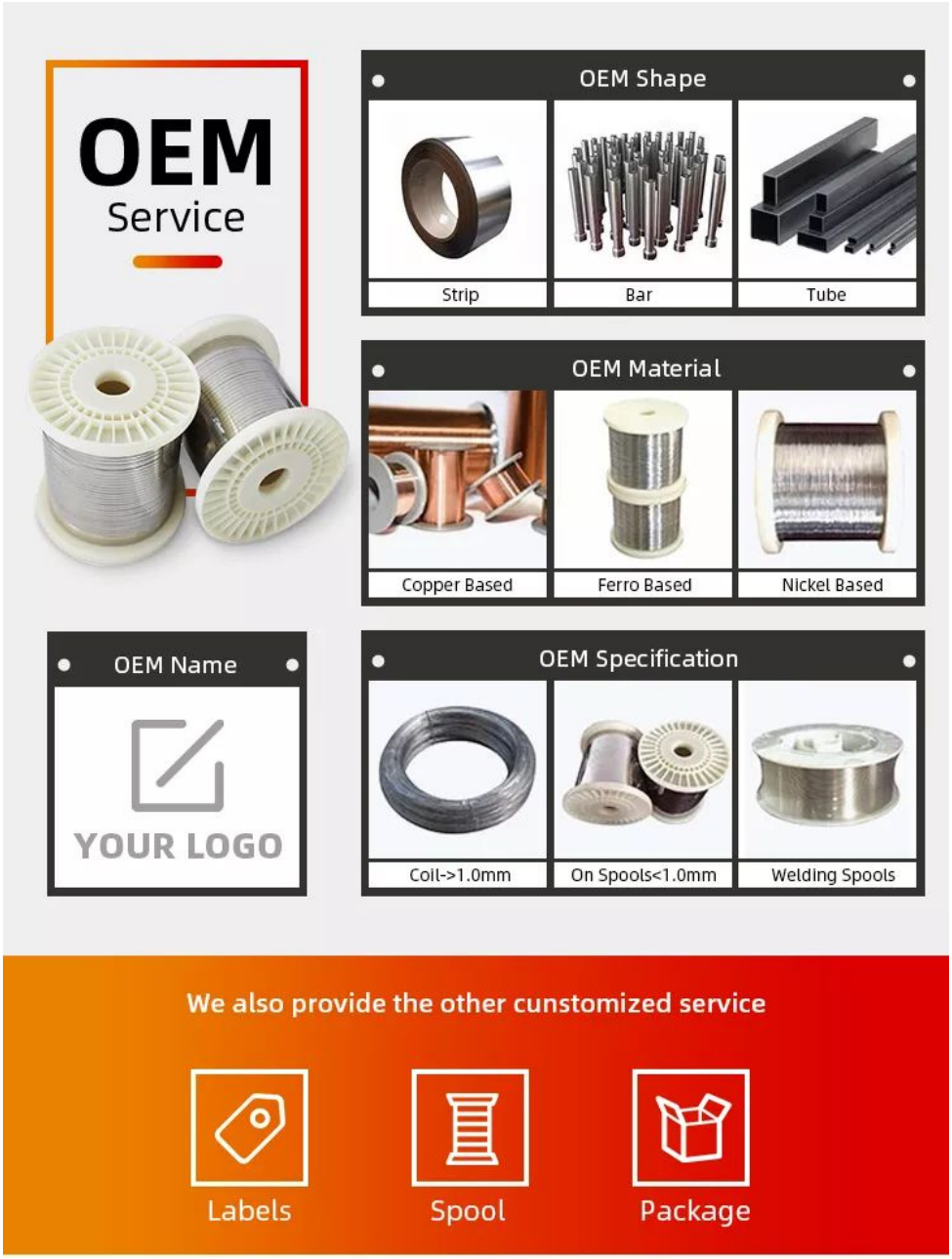
NiCr 70/30 is suitable for heating elements used for temperatures upto 1230°C for industrial furnaces which have alternating oxidizing, or reducing atmosphere. This alloy has excellent corrosion resistance and long life in air and controlled atmospheres.

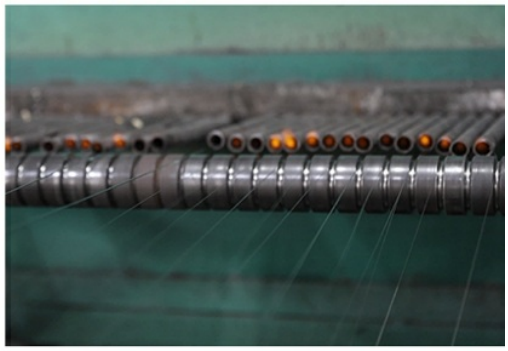
NiCr 60/15 is suitable for heating elements used for temperatures upto 1150°C. This is used for electrically heated equipment, high resistance and potientiometer resistors.

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.


APPLICATION
Industrial Heating Equipments
Domestic Heating Appliances


1
Raw material
2
Smelting
3
Drawing
4
Rolling
5
Annealing
6
Finished product
7
Detection
8
Packing
9
Shipping


OEM
Service
OEM Shape
Strip
Bar
Tube
OEM Material
Copper Based
Ferro Based
Nickel Based
OEM Name
YOUR LOGO
OEM Specification
Coil->1.0mm
On Spools<1.0mm
Welding Spools
We also provide the other cunstomized service
Labels
Spool
Package



Changzhou Victory Technology Co., Ltd

+8619906119641 victory@dlx-alloy.com victory-alloy.com

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