

Cr20ni80 Cr20ni35 Cr15ni60 Cr10ni90 Heating Resistance Wire For Industry

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Basic Information					
• Place of Origin:	China				
 Brand Name: 	Victory				
 Certification: 	CE				

- Certification: Model Number:
- Minimum Order Quantity: 5
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:

Cr10Ni90

- Spool package with Carton box, Coil package with polybag for Resistance wire 5-21 davs L/C, T/T, Western Union, MoneyGram
- 300 tons per month

Heating, Resistivity

Hard / Soft Bright, Oxided, Acide

7-20 Days

NiCr Alloy Wire

Industry Nichrome Alloy

Product Specification

- Material: Nickel, Chromium Nickel(Min): 89% • Tensile Strength: 637MPA Magnetic Permeability: 0.78+/-0.05 ≥20%
- Elongtation:
- Application:
- Condition:
- Sureface:
- Delivery Time:
- Name:
- Highlight:



V#C

More Images



Product Description

Introduction:

Our Product Introduc

NiCr alloy wire exhibits excellent high-temperature stability due to its high melting point, oxidation resistance, matching thermal expansion coefficient, crystal phase stability, and ratio of nickel and chromium. This makes it the material of choice for many high temperature applications such as heat treatment equipment, high temperature heating elements and aerospace.

1. High melting point: NiCr alloy wire has a relatively high melting point, usually between 1200°C and 1400°C, which allows it to maintain stable structure and performance in high-temperature environments.

2. Anti-oxidation performance: NiCr alloy wire forms a dense oxide surface layer in a high-temperature oxidizing environment. This oxide layer can effectively prevent the erosion of oxygen and other oxidants and provide protection. This anti-oxidation property allows NiCr alloy wire to be used at high temperatures for a long time without significant oxidation and corrosion.

3. Thermal expansion coefficient matching: The thermal expansion coefficient of NiCr alloy wire matches that of many common structural materials (such as steel). This means that under high temperature conditions, the



durability and life of the material. 4. Crystalline phase stability: The crystalline phase in NiCr alloy has high thermal stability, that is, it is not prone to phase change or precipitation at high temperatures. This ensures the structural stability and performance consistency of NiCr alloy wire under high temperature conditions.

5. The ratio of nickel and chromium: The ratio of nickel and chromium in NiCr alloy wire plays an important role in its high temperature stability. Generally speaking, high nickel content improves the high-temperature stability and oxidation resistance of the alloy, while high chromium content provides better corrosion resistance.



Technical Parameters:

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 líneas a×10-6/(20	expansión de 1000°C)		18	17	17	19
Estructura microg	gráfica		Austenite	Austenite	Austenite	Austenite
Propiedades mag	néticas		Nonmagnetic	Nonmagneti c	Nonmagnetic	Weak magnetic
						1

Form	Specification			
Wire	Diameter=0.025mm~8mm			
Flat wire	Width=0.40~6.0mm	Thick=0.03~0.50mm		
Strip	width=8~250mm	Thick=0.05~3.0m	im	
Bar	Diameter=8~100mm	Long=50~1000		

Service:

Safety is our utmost priority when it comes to our NiCr alloy heaters. We have implemented multiple safety measures, including overload protection and overheating protection, to ensure the safe and reliable operation of our heaters. You can have peace of mind knowing that our products prioritize your safety and provide a secure heating solution.



contact us email:victory@dlx-alloy.com

Oem service: Welcome customized size We are experience factory for OEM&ODM service

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

Packing and Shipping:

Sturdy cardboard boxes are used for packaging NiCr Alloy. Each box has dimensions of approximately 26 cm (length) x 26 cm (width) x 30 cm (height). The shipping method for NiCr Alloy depends on the customer's requirements.

FAQ:

What are the typical mechanical properties of NiCr Alloy?

The mechanical properties of NiCr Alloy can vary depending on the specific composition and heat treatment. Generally, it exhibits high strength, good ductility, and excellent creep resistance at elevated temperatures.

What is the cost of NiCr alloy?

The cost of NiCr alloys is generally lower and more economical than other high-temperature alloys (such as tungsten-molybdenum alloys). This makes NiCr alloys a popular choice in many applications.

Do you provide technical support for Cr10Ni90 alloy wire?

Yes, we provide technical support for Cr10Ni90 alloy wire, including selection suggestions, application guidance, etc.

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