

Cr20Ni80 NiCr Alloy Wire Widely Used In Heat Treating Ceramics Glass And More

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

Cr20Ni80

5-21 davs

300 tons per month

Spool package with Carton box, Coil package with polybag for Resistance wire

L/C, T/T, Western Union, MoneyGram

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

Product Specification

 Material: Nickel, Chromium Nickel(Min): 77% • Tensile Strength: 637MPA Magnetic Permeability: 1.09+/-0.05 Elongtation: ≥20% Application: Heating, Resistivity Condition: Hard / Soft Bright, Oxided, Acide Sureface: • Delivery Time: 7-20 Days • Name: NiCr Alloy Wire • Highlight: Cr20Ni80 Wire, Ceramics Glass NiCr Alloy Wire, NiCr Alloy Wire



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Product Description

Cr20Ni80 Wire NiCr Alloy Widely Used In Heat Treating Ceramics Glass And More Product Description:

NiCr alloy, including Cr20Ni80, are valued for their excellent heat generation, oxidation resistance, and high-temperature performance. These properties make them reliable and efficient heating elements in heat treating ceramics and glass applications.

Here's how NiCr alloy is used in heat treating ceramics and glass:

1. Electric Kilns and Furnaces: NiCr alloy is commonly employed as heating elements in electric kilns and furnaces for ceramic and glass production. The alloys' high melting point and oxidation resistance enable them to withstand the high temperatures required for these processes. NiCr heating elements provide controlled and uniform heating, allowing for the shaping, glazing, and firing of ceramics and glass materials.



2. Annealing and Tempering: NiCr alloy is utilized in heat treatment processes like annealing and tempering to enhance the structural properties of ceramics and glass. These alloys serve as heating elements to provide the necessary heat for controlled cooling and annealing cycles. This helps relieve internal stresses and improve the strength and durability of the materials.

NiCr (nickel-chromium) alloys, including Cr20Ni80 (Nichrome 80/20), are indeed widely used in heat treating ceramics and glass applications. These alloys possess excellent electrical resistance and high-temperature stability, making them suitable for various heat treatment processes.

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 máx	ima°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 micrográfica			Austenite	Austenite	Austenite	Austenite
Propiedades mag	néticas		Nonmagnetic	Nonmagneti c	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		



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: NiCr Alloy Packaging and Shipping NiCr Alloy products are packaged in 25kg/bag paper bags. The bags are placed on pallets. The pallets are then wrapped with foam and stretch film. The wrapped pallets are then loaded into the container. The container is then sealed and shipped. FAQ: What is NiCr alloy? NiCr alloy is an alloy composed of nickel and chromium that has high electrical resistance and high temperature stability. What are the applications of NiCr alloy in heat treatment of ceramics and glass? NiCr alloys are commonly used in heat-treating ceramic and glass applications. It can be used as a heating element for electric stoves and electric furnaces, providing a controlled heating process. What are the advantages of NiCr alloy? NiCr alloy has excellent resistance properties, high temperature stability and oxidation resistance, and can provide long-lasting heating effect in high temperature environments. What is the melting point of NiCr alloy? The melting point of NiCr alloy is approximately 1400°C (2550°F), which allows it to operate at high temperatures without losing structural integrity.

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