

## Cr20Ni30 Nickel Chromium Alloy Wire Anti Oxidation Anti Creep Properties In High Temperature Environment

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Basic Information	
<ul> <li>Place of Origin:</li> </ul>	China
<ul> <li>Brand Name:</li> </ul>	Victory
Certification:	CE
<ul> <li>Model Number:</li> </ul>	Cr20Ni35
<ul> <li>Minimum Order Quantity:</li> </ul>	5
<ul> <li>Delivery Time:</li> </ul>	5-21 days
<ul> <li>Payment Terms:</li> </ul>	L/C, T/T, Western Union, MoneyGram
<ul> <li>Supply Ability:</li> </ul>	300 tons per month



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### **Product Specification**

	Anti Oxidation Nickel Chromium Alloy Wire, Anti Creep Nickel Chromium Alloy Wire
<ul> <li>Highlight:</li> </ul>	Cr20Ni30 Nickel Chromium Alloy Wire,
• Elongation At Rupture(%):	>20
<ul> <li>Melting Point Approx.( <sup>o</sup>C):</li> </ul>	1390
<ul> <li>Coefficient Of Lines Expansion(α×10-6/<sup>g</sup>C):</li> </ul>	19
<ul> <li>Thermal Conductivity (KJ/m·h·<sup>o</sup>C):</li> </ul>	43.8
<ul> <li>Density(g/cm3):</li> </ul>	7.9
<ul> <li>Resistivity:</li> </ul>	1.00±0.05
<ul> <li>Melting Point:</li> </ul>	1390
<ul> <li>Max. Continuous Service Temp. Of Element(<sup>e</sup>C):</li> </ul>	1100



#### More Images



#### **Product Description**

Cr20Ni35 Heating Nichrome Wire Strip Ribbon Resistance Wire Coil

#### **NiCr Series**

OhmAlloy104A, also known as Ni35Cr20, Chromel D, Nikrothal 40, N4, HAI-NiCr 40, Tophet D, Resistohm 40, Cronifer III, Chromex, 35-20 Ni-Cr, Alloy D, NiCr-D Alloy 600, MWS-610, and Stablohm 610, is a type of nickelchromium alloy that boasts high resistivity, good oxidation resistance, excellent form stability, good ductility, and exceptional weldability. It can withstand temperatures of up to 1100°C, making it a reliable choice for various applications.

One of the most common uses of OhmAlloy104A is in night-storage heaters, convection heaters, heavy-duty rheostats, and fan heaters. It is also used in heating cables and rope heaters for defrosting and de-icing elements, electric blankets and pads, car seats, baseboard heaters, and floor heaters. Additionally, it is used in

resistors.

Thanks to its excellent form stability and ductility, OhmAlloy104A is easy to shape and form into various shapes and sizes. Its weldability is also noteworthy, making it easy to join with other materials. Overall, OhmAlloy104A is a versatile and reliable material that can be used in a wide range of applications where high resistivity and good oxidation resistance are required. Its excellent form stability, ductility, and

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

weldability make it an ideal choice for various heating applications.

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Performance mate	rial	Cr10Ni	90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35	С	
	Ni	90		Rest	Rest	55.0~61.0	34.0~37.0	31	
Composition	Cr	10		20.0~23.0	28.0~31.0	15.0~18.0	18.0~21.0	11	
	Fe			≤1.0	≤1.0	Rest	Rest	R	
laximum tempera	iture°C	1300		1200	1250	1150	1100	1	
feltiing point °C		1400		1400	1380	1390	1390	1:	
ensity g/cm3		8.7		8.4	8.1	8.2	7.9	7.	
Resistivity at 20°C((μΩ·m)				1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05	1.	
longation at ruptu	ıre	≥20		≥20	≥20	≥20	≥20	≥;	
specific heat				0.44	0.461	0.494	0.5	0.	
/g.°C									
hermal conductiv	ity			co. o	45.0	45.0	40.0		
J/m.h°C				00.3	45.2	45.2	+3.0	4,	
Coefficient of lines	expansion							ſ	
×10-6/				18	17	17	19	1!	
20~1000°C)									
licrographic struc	ture			Austenite	Austenite	Austenite	Austenite	A	
lagnetic propertie	2S			Non-magnetic	Non-magnetic	Non-magnetic	Weak magnetic	w	
licrographic struc	ture	Ferrite		Ferrite	Ferrite	Ferrite	Ferrite	F	
lagnetic propertie	?S	Magnet	С	Magnetic	Magnetic	Magnetic	Magnetic	Μ	
Form			Specific	ation					
Wire Dian			Diameter	iameter=0.025mm~8mm					
Flat wire Wi		Width=0.	40~6.0mm		Thick=0.03~0.50mm				
Strip width			width=8~	250mm		Thick=0.05~3.0	Thick=0.05~3.0mm		
Bar			Diameter	Diameter=8~100mm			Long=50~1000		
ci.	To Pongo								

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









+8619906119641 victory@dlx-alloy.com victory-alloy.com
NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu