Cr20Ni35 Nichrome Ribbon Wire

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE
- Model Number: Cr20Ni35
- 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: 1.00±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: **Cr20Ni35 nichrome ribbon wire**, **N4 nichrome ribbon wire**, **Heating nichrome wire alloy**

Our Product Introduction

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 nickel-chromium 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.

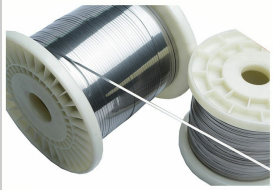
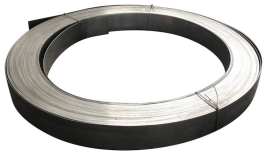
Thanks to its excellent form stability and ductility, OhmAlloy104A is easy to shape and form into various shapes and sizes. Its weldability is also noteworthy, making it easy to join with other materials.
Overall, OhmAlloy104A is a versatile and reliable material that can be used in a wide range of applications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

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	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.

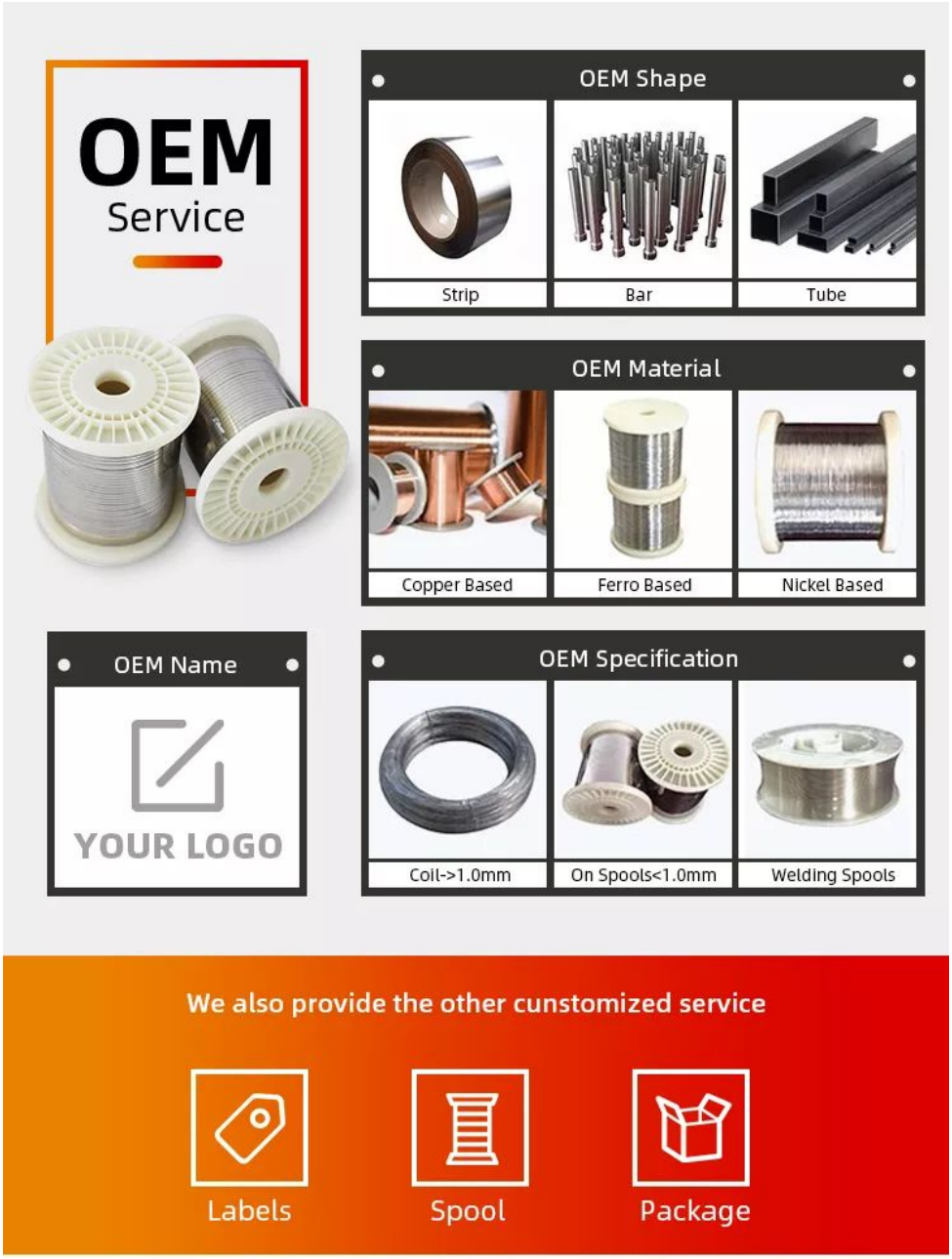
NiCr 70/30 is suitable for heating elements used for temperatures upto 1230°C for industrial furnaces which have alternating oxidizing, or reducing atmosphere. This alloy has excellent corrosion resistance and long life in air and controlled atmospheres.

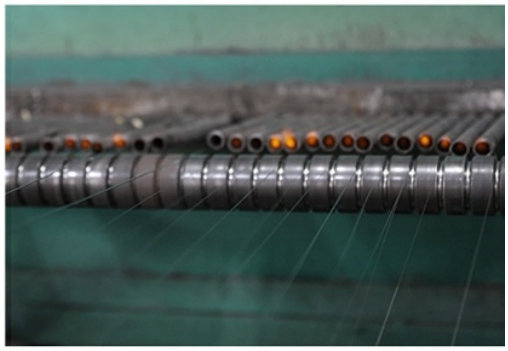
NiCr 60/15 is suitable for heating elements used for temperatures upto 1150°C. This is used for electrically heated equipment, high resistance and potientiometer resistors.

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



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