



Best Selling Products FeCrAl Alloy 0Cr23Al5 Electric Resistance Heating Wire

Our Product Introduction

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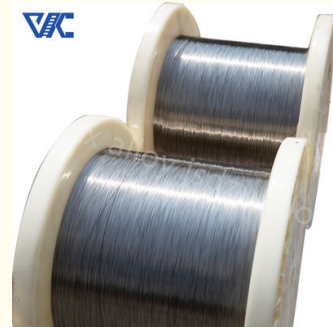
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Model Number: 0Cr25Al5
- Minimum Order Quantity: 5
- Packaging Details: Spool package with Carton box, Coil package with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



Product Specification

- Material: Ferrous Chromium Aluminum
- Resistivity: 1.42+/-0.05
- Tensile Strength: 630-780MPA
- Elongation: ≥12%
- Application: Heating, Resistivity
- Condition: Hard / Soft
- Surface: Bright, Oxided, Acide
- Delivery Time: 7-20 Days
- Maximum Temperature: 1250°C
- Melting Point: 1500°C
- Name: Resistance Heating Flat Wire
- Highlight: 0Cr21Al6Nb FeCrAl Alloy, FeCrAl Alloy Flat Wire, 0cr21al6nb



More Images



Our Product Introduction

Product Description



FECRAL ALLOY WIRE

1Cr13Al4,0Cr15Al5,0Cr19Al3,0Cr21Al4,0Cr21Al6,
 0Cr23Al5,0Cr25Al5,0Cr21Al6Nb,0Cr27Al7Mo2

Customized service available

Product introduction:FeCrAl Electrictrical Resistance Heating alloys with high electrical resistivity, temperature coefficient of resistance is small, high operating temperature. good corrosion resistance under high temperature, and particularly suitable for use in a gas containing sulfur and sulfides, low price.

Application Area: It is widely used in industrial furnace, household appliances, industry furnace, metallurgy, machinery, aircraft, automotive, military and other industries producing heating elements and resistance elements.

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Size dimension range:

Wire: 0.01-10mm

Ribbon: 0.05*0.2-2.0*6.0mm

Strip: 0.05*5.0-5.0*250mm

Bar:10-50mmFeCrAl alloy series: 0Cr15Al5,1Cr13Al4, 0Cr21Al4, 0Cr21Al6, 0Cr23Al5, 0Cr25Al5, 0Cr21Al6Nb,0Cr27Al7Mo2, and etc.

FeCrAl alloy has the characteristic of high resistivity, low temperature resistance coefficient, high operating temperature,good anti-oxidation and anti-corrosion under high temperature. It is widely used in industrial furnace, household appliances, indutry furnace, metallurhy, machinery, aircraft,automotive,military and other industries producing heating elements and resistance elements.

Alloy Nomenclature Performance		1Cr13Al4	0Cr25Al5	0Cr21Al6	0Cr23Al5	0Cr21Al4	0Cr21Al6Nb
Chemical Composition (%)	Cr	12.0-15.0	23.0-26.0	19.0-22.0	20.5-23.5	18.0-21.0	21.0-23.0
	Al	4.0-6.0	4.5-6.5	5.0-7.0	4.2-5.3	3.0-4.2	5.0-7.0
	Re	Opportun	Opportun	Opportun	Opportun	Opportun	Opportun
	Fe	Rest	Rest	Rest	Rest	Rest	Rest
		--	--	--	--	--	Nb0.5
Max.Continuous service temp. of element		950	1250	1250	1250	1100	1350
Resistivity at 20C(μΩ.m)		1.25	1.42	1.42	1.35	1.23	1.45
Density(g/cm)		7.4	7.1	7.16	7.25	7.35	7.1
Thermal Conductivity(KJ/m.h)		52.7	46.1	63.2	60.2	46.9	46.1
Melting Point Approx(degree)		1450	1500	1500	1500	1500	1510
Tensile Strength(N/mm)		580-680	630-780	630-780	630-780	600-700	650-800
Elongation at rupture(%)		>16	>12	>12	>12	>12	>12
Variation of area(%)		65-75	60-75	65-75	65-75	65-75	65-75
Repeat Bending frequency(F/R)		>5	>5	>5	>5	>5	>5

Hardness(H.B.)	200-260	200-260	200-260	200-260	200-260	200-260
continuous service time(Hours/ °C)	--	≥80/1300	≥80/1300	≥80/1300	≥80/1250	≥80/1350
Micrographic structure	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Magnetic properties	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic

PRODUCT

Product Details

High-quality materials and surface treatment technology



Metallic Luster



Smooth Edges



PRODUCT

Product Comparison

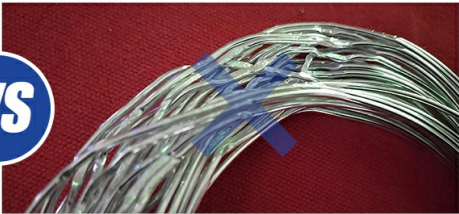
The quality of our products has been strictly tested and guaranteed



OTHERS



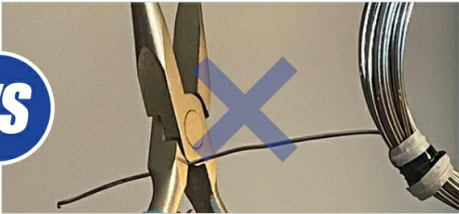
Smooth Edges



Uneven Edges



Product Quality Strict Inspection



Product Quality Is Not Up To Standard

Application Field

FeCrAl alloy wires are widely used in many fields



FeCrAl wire (Iron-Chromium-Aluminum wire) finds applications in various industries where high-temperature resistance, oxidation resistance, and electrical heating properties are required. Here are some common areas of application:

1. Heating elements: FeCrAl wire is extensively used as heating elements in appliances such as electric ovens, toasters, industrial furnaces, and kilns. Its high resistance to oxidation and excellent heat resistance make it suitable for these high-temperature heating applications.
2. Electrical industry: FeCrAl wire is utilized in the electrical industry for applications such as resistors, heating coils, and electrical heating elements. Its high electrical resistivity and ability to withstand elevated temperatures make it suitable for these electrical heating applications.
3. Automotive industry: FeCrAl wire finds application in the automotive industry for components such as oxygen sensors, spark plug resistors, and electrical connectors. Its resistance to high temperatures and corrosion makes it suitable for these automotive applications.
4. Industrial heating and drying: FeCrAl wire is employed in industrial heating and drying processes, including heat treatment, annealing, and drying of materials. It is used in equipment such as industrial dryers, heat treatment furnaces, and annealing ovens.
5. Aerospace industry: FeCrAl wire is used in the aerospace industry for applications such as heating elements, temperature sensors, and electrical connectors. Its high-temperature resistance and ability to withstand harsh environments make it suitable for aerospace applications.
6. Food processing industry: FeCrAl wire finds application in the food processing industry for equipment such as electric grills, cooking appliances, and heating elements in commercial ovens. Its high-temperature resistance and corrosion resistance make it suitable for these food processing applications.

In summary, FeCrAl wire is employed in industries that require high-temperature resistance, oxidation resistance, and electrical heating properties. Its applications include heating elements, electrical industry, automotive industry, industrial heating and drying, aerospace industry, food processing industry, petrochemical industry, and research and development.

PRODUCT

Product Process

The production process and technology used in the product



1 Ingredients



2 Smelting



3 Hot-rolling



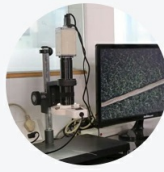
4 Heat Treatment



5 Wire Drawing



6 Heat Treatment Annealing



7 Detecting



8 Packing



PRODUCT

Product Comparison

The quality of our products has been strictly tested and guaranteed



Composition Detection



Composition Detection



Measuring Instrument



Micro Hardness Tester



Micro Hardness Tester



Tensile Test Equipment

OEM Services

We can provide customized services for customers

Product Customization

Size:0.05-7.5mm

We can customize FeCrAl alloy wire of different size for customers.



Label Customization



We can provide label customization service for customers' products.

Packaging Customization

We can customize different packaging methods for customers.



Recommended Products

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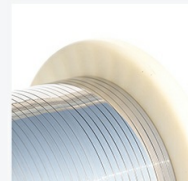
CuNi Wire



NiCr Wire



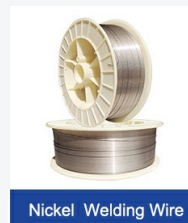
Nickel Wire



NiCr Flat Wire



Monel Wire



Nickel Welding Wire



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