

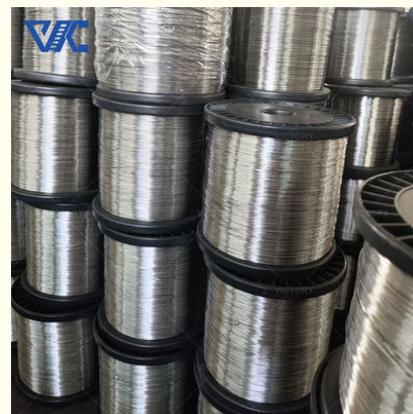


14 20 24 AWG 16SWG FeCrAl Alloy 0Cr13Al4 Electric Resistance Wire For Oven Heating

Our Product Introduction

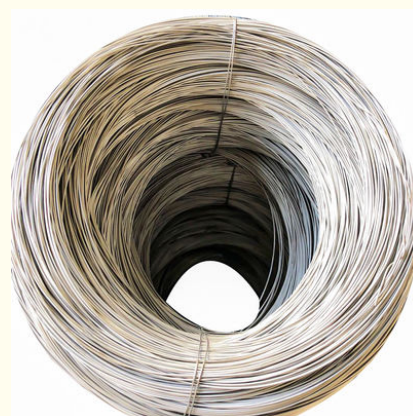
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO/ROHS
- Model Number: 0Cr13Al4
- Minimum Order Quantity: 3kgs
- Price: 3-500kgs \$2.58-\$3.50
- Packaging Details: Put wire into cartons, then put cartons onto pallet
- Delivery Time: 10-25 days
- Payment Terms: L/C, T/T, Paypal, Western Union
- Supply Ability: 80 Tons Per Month



Product Specification

- Material: FeCrAl
- Surface: Bright, Acid White, Black/Oxidized
- Density: 7.40 G/cm3
- Resistivity: 1.25 Ω /m
- Max Working Temperature: 950°C
- Elongation At Rupture: 16%
- Hardness (H.B.): 200-260
- Magnetic Properties: Magnetic
- MOQ: 3-20kgs
- Delivery Lead Time: 15-25 Days
- Melting Point Approx (°C): 1450°C
- Tensile Strength (N/mm2): 580-680 N/mm2
- Highlight: 16SWG FeCrAl Alloy,
Oven Heating FeCrAl Alloy,
0Cr13Al4 FeCrAl Alloy



More Images



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What is 0Cr13Al4 wire?

0Cr13Al4 wire is another type of iron-chromium-aluminum (FeCrAl) alloy wire with a different composition compared to 0Cr21Al4. The composition of 0Cr13Al4 wire typically includes:

13% Chromium (Cr)
4% Aluminum (Al)
Iron (Fe) and trace amounts of other elements.

Similar to other FeCrAl alloys, 0Cr13Al4 wire is known for its high resistance to oxidation and corrosion at elevated temperatures. This wire is commonly used in heating elements, industrial furnaces, and various electrical applications where high temperature performance is required.

The specific properties and applications of 0Cr13Al4 wire are similar to other FeCrAl alloys, with its performance being influenced by its composition and processing. This alloy is suitable for applications where moderate temperature resistance and good oxidation resistance are needed.

What is 0Cr13Al4 Wire Main Applications and Working Performance?

Heating Elements: 0Cr21Al4 wire is widely used in heating elements for industrial furnaces, ovens, electric heaters, and kilns due to its high temperature resistance and oxidation resistance.

Main Applications:

- 1. Heating Elements:** 0Cr13Al4 wire is commonly employed in the manufacturing of heating elements for industrial furnaces, ovens, kilns, and other high-temperature applications due to its resistance to oxidation and corrosion at elevated temperatures.
- 2. Household Appliances:** It finds application in household appliances such as electric stoves, toasters, and hair dryers where resistance heating is required.
- 3. Industrial Processes:** Used in industrial processes like heat treatment, annealing, and forging due to its ability to withstand high temperatures.
- 4. Resistors:** 0Cr13Al4 wire is used as a resistor in electrical circuits and components due to its stable electrical properties.

Working Performance:

- 1. High Temperature Resistance:** The wire can endure temperatures up to a certain range without significant degradation, making it suitable for high-temperature applications.
- 2. Oxidation Resistance:** It exhibits excellent resistance to oxidation, maintaining its properties even at high temperatures in oxidizing environments.
- 3. Mechanical Strength:** 0Cr13Al4 wire possesses good mechanical properties, ensuring durability and reliability in various applications.
- 4. Corrosion Resistance:** The wire has good corrosion resistance, making it suitable for use in corrosive environments.
- 5. Electrical Resistance:** It maintains a stable electrical resistance, which is crucial for its use in heating elements and electrical circuits.

Shape	Size (mm)
Wire	0.025-8.00mm
Rod	8.00-50.00mm
Robbin	(0.05-0.35)*(0.5-6.0)mm
Strip	(0.50-2.50)*(5.00-180.00)mm

Alloy Nomenclature Performance		1Cr13Al4	0Cr25Al5	0Cr21Al6	0Cr23Al5	0Cr21Al4/ 0Cr19Al3	0Cr21Al6Nb	0Cr27Al7Mo2
Main 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	26.5-27.8
	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	6.0-7.0
	Rest	opportune	opportune	opportune	opportune	opportune	opportune	opportune
	Fe	Rest	Rest	Rest	Rest	Rest	Rest	Rest
	Others	--	--	--	--	--	Nb 0.5	Mo 1.8-2.2
Max. continuous service temp. of element(°C)		950	1250	1250	1250	1100	1350	1400

Resistivity at 20°C($\mu\Omega@m$)	1.25	1.42	1.42	1.35	1.23	1.45	1.53
Density(g/cm ³)	7.4	7.1	7.16	7.25	7.35	7.1	7.1
Thermal conductivity(KJ/m@h@°C)	52.7	46.1	63.2	60.2	46.9	46.1	
Line expansion coefficient($\alpha \times 10^{-6}/^{\circ}C$)	15.4	16	14.7	15	13.5	16	16
Melting point approx.(°C)	1450	1500	1500	1500	1500	1510	1520
Tensile Strength(N/mm ²)	580-680	630-780	630-780	630-780	600-700	650-800	680-830
Elongation at break(%)	>16	>12	>12	>12	>12	>12	>10
Variation of area(%)	65-75	60-75	65-75	65-75	65-75	65-75	65-75
Repeat bending frequency(F/R)	>5	>5	>5	>5	>5	>5	>5
Hardness (H.B.)	200-260	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	≥50/1350	≥50/1350
Micrographic structure	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Magnetic properties	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic





Are you a Manufacturer or Trader?

We are a Manufacturer.

Do you provide free samples?

Yes, we can provide a free sample for testing, buyer should bear all the shipping costs.

What is your payment terms?

T/T, L/C, D/A, D/P, Western Union, MoneyGram, Paypal.

What is the lead time?

Usually sample lead time is 7 days after payment has been confirmed.



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