



CHANGZHOU DLX ALLOY CO., LTD.



CHANGZHOU DLX ALLOY CO., LTD.

**FEGRAL  
ALLOY**



## CONTACT US

BUSINESS PHONE: 86-1895-2950-953

ADDRESS : NO.32 WEST TAIHU ROAD,  
XINBEI DISTRICT, CHANGZHOU, JIANGSU





# 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, industry furnace, metallurgy, machinery, aircraft, automotive, military and other industries producing heating elements and resistance elements.

**Size dimension range:** Wire:0.06-10mm    Ribbons: 0.05\*0.2-2.0\*6.0mm    Strip: 0.05\*5.0-5.0\*250mm    Bar:10-50mm

**FeCrAl Alloy series:** 1Cr13Al4, 0Cr21Al4, 0Cr21Al6, 0Cr23Al5, 0Cr25Al5, 0Cr21Al6Nb, 0Cr27Al7Mo2, and etc.

Alloy Nomenclature Performance		1Cr13Al4	0Cr21Al4	0Cr23Al5	0Cr25Al5	0Cr21Al6	0Cr21Al6Nb	0Cr27Al7Mo2
Main Chemical composition	Cr	12.0-15.0	18.0-21.0	21.5-23.5	23.0-26.0	19.0-22.0	21.0-23.0	26.5-27.8
	Al	4.0-6.0	3.0-4.2	4.2-5.3	4.5-6.5	5.0-7.0	5.0-7.0	6.0-7.0
	Re	opportune	opportune	opportune	opportune	opportune	opportune	opportune
	Fe	Rest	Rest	Rest	Rest	Rest	Rest	Rest
							Nb0.5	Mo1.8-2.2
Max. continuous service temp. of element(°C)		950	1100	1250	1250	1250	1350	1400
Resistivity at 20°C(μΩ·m)		1.25	1.23	1.35	1.42	1.42	1.45	1.53
Density(g/cm <sup>3</sup> )		7.4	7.35	7.25	7.1	7.16	7.1	7.1
Thermal conductivity(KJ/m·h·°C)		52.7	46.9	60.2	46.1	63.2	46.1	--
Coefficient of lines expansion(α×10-6/°C)		15.4	13.5	15	16	14.7	16	16
Melting point approx.(°C)		1450	1500	1500	1500	1500	1510	1520
Tensile strength(N/mm <sup>2</sup> )		580-680	600-700	637-784	630-780	630-780	650-800	686-784
Elongation at rupture(%)		>16	>14	>12	>12	>12	>12	>12
Variation of area(%)		65-75	65-75	65-75	60-75	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)		--	≥80/1250	≥80/1300	≥80/1300	≥80/1300	≥50/1350	≥50/1350
Micrographic structure		Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite

