Ualloy135 (0Cr23Al5)

Common Name: 0Cr23Al5,Kanthal D, Kanthal, Alloy 815, Alchrome DK, Alferon 901, Resistohm 135,Aluchrom S, Stablohm 812

Ualloy135 is a iron-chromium-aluminium alloy (FeCrAl alloy) characterized by high resistance, low coefficient of electric resistance, high operating temperature, good corrosion resistance under high temperature.It is suitable for use at temperatures up to 1250°C.

Typical applications for Ualloy135 are used in home appliances and industrial furnace,and kinds of elements in heaters and dryers.

Normal composition(%)

C	P	S	Mn	Si	Cr	Ni	Al	Fe	Other
Max									
0.06	0.025	0.025	0.70	Max 0.60	20.5~23.5	Max 0.60	4.2~5.3	Bal.	-

Typical Mechanical properties（1.0mm）

Yield strength	Tensile Strength	Elongation
Mpa	Mpa	%
485	670	23

Typical Physical properties

Density (g/cm^3)	7.25
Electrical resistivity at 20℃($\Omega mm^2/m$)	1.35
Conductivity coefficient at 20℃ (WmK)	13

Coefficient of thermal expansion	
Temperature	Coefficient of Thermal Expansion $x10^{-6}/℃$
20 ℃- 1000℃	15

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Specific heat capacity	
Temperature	J/gK
20℃	0.46

Melting point (℃)	1500
Max continuous operating temperature in air (℃)	1250
Magnetic properties	non-magnetic

Temperature Factors Of Electrical Resistivity

20℃	100℃	200℃	300℃	400℃	500℃	600℃
1	1.002	1.007	1.014	1.024	1.036	1.056
700℃	800℃	900℃	1000℃	1100℃	1200℃	1300℃
1.064	1.070	1.074	1.078	1.081	1.084	-

Style of supply

Alloys Name	Type	Dimension	
Ualloy135W	Wire	D= 0.03~8mm	
Ualloy135R	Ribbon	W= 0.4~40mm	T= 0.03~2.9mm
Ualloy135S	Strip	W= 8~250mm	T= 0.1~3.0mm
Ualloy135F	Foil	W= 6~120mm	T= 0.003~0.1mm
Ualloy135B	Bar	Dia= 8~100mm	L= 50~1000mm

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