Ualloy142B (0Cr25Al5)

Common Name: Aluchrom-O

Ualloy142B 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 Ualloy142B are used in electric ceramic cooktop,industrial furnace,heaters.

Normal composition(%)

C	P	S	Mn	Si	Cr	Ni	Al	Fe	Other
Max									
0.06	0.025	0.025	0.70	Max 0.60	23.0~26.0	Max 0.60	4.5~6.5	Bal.	-

Typical Mechanical properties（1.0mm）

Yield strength	Tensile Strength	Elongation
Mpa	Mpa	%
500	700	23

Typical Physical properties

Density (g/cm^3)	7.10
Electrical resistivity at 20℃(Ωmm^2/m)	1.42
Conductivity coefficient at 20℃ (WmK)	13

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

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℃
1	1.002	1.005	1.008	1.013	1.021
700℃	800℃	900℃	1000℃	1100℃	1200℃
1.038	1.040	1.042	1.044	1.046	1.047

Style of supply

Alloys Name	Type	Dimension	
Ualloy142BW	Wire	D= 0.03~8mm	
Ualloy142BR	Ribbon	W= 0.4~40mm	T= 0.03~2.9mm
Ualloy142BS	Strip	W= 8~250mm	T= 0.1~3.0
Ualloy142BF	Foil	W= 6~120mm	T= 0.003~0.1
Ualloy142BB	Bar	Dia= 8~100mm	L= 50~1000

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