Ualloy145A (0Cr20Al5)

Ualloy145A 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 1300°C.

Typical applications for ualloy145 are used in industrial electric furnace,electric ceramic cooktop.

Normal composition(%)

C	P	S	Mn	Si	Cr	Ni	Al	Fe	Other
Max									
0.04	0.02	0.015	0.50	Max 0.40	20.0~21.0	Max 0.10	4.5~6.0	Bal.	-

Typical Physical properties

Density (g/cm^3)	7.10
Electrical resistivity at 20℃(Ωmm^2/m)	1.45
Conductivity coefficient at 20℃ (WmK)	13
Tensile Strength(Mpa)	637-784
Elongation	Min 16%
Harness(HB)	200-260
Section Variation Shrink Rate	65-75%
Repeatedly Bend Frequency	Min 5 times

Coefficient of thermal expansion	
Temperature	Coefficient of Thermal Expansion x10^{-6}/℃
20 ℃- 1000℃	16

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Specific heat capacity	
Temperature	J/gK
20℃	0.49

Melting point (℃)	1500
Max continuous operating temperature in air (℃)	1300
Magnetic properties	non-magnetic

Style of supply

Alloys Name	Type	Dimension	
Ualloy145AW	Wire	D= 0.03~8mm	
Ualloy145AR	Ribbon	W= 0.4~40mm	T= 0.03~2.9mm
Ualloy145AS	Strip	W= 8~250mm	T= 0.1~3.0
Ualloy145AF	Foil	W= 6~120mm	T= 0.003~0.1
Ualloy145AB	Bar	Dia= 8~100mm	L= 50~1000

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