Ualloy112 (Ni60Cr15)

Common Name: Chromel C, Nikrothal 60, N6, HAI-NiCr 60, Tophet C, Resistohm 60, Cronifer II,Electroloy, Nichrome, Alloy C, Alloy 675,Nikrothal 6, MWS-675, Stablohm 675,NiCrC.

Ualloy112 is a nickel-chromium alloy (NiCr alloy) characterized by high resistivity, good oxidation resistance ,good form stability and good ductility and excellent weldability. It is suitable for use at temperatures up to 1150°C.

Typical applications for Ualloy112 are used in metal sheathed tubular elements,for example,hot plates,grills,toaster ovens and storage heaters.The alloys is also used for suspended coils in air heaters in clothes dryers,fan heaters,hand dryers etc.

Normal composition(%)

C	P	S	Mn	Si	Cr	Ni	Al	Fe	Other
Max									
0.08	0.02	0.015	0.60	0.75~1.60	15.0~18.0	55.0~61.0	Max 0.50	Bal.	-

Typical Mechanical properties（1.0mm）

Yield strength	Tensile Strength	Elongation
Mpa	Mpa	%
370	730	35

Typical Physical properties

Density (g/cm^3)	8.2
Electrical resistivity at 20℃($\Omega mm^2/m$)	1.12
Conductivity coefficient at 20℃ (WmK)	13

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Coefficient of thermal expansion	
Temperature	Coefficient of Thermal Expansion x10^{-6}/℃
20 ℃- 1000℃	17

Specific heat capacity	
Temperature	J/gK
20℃	0.46

Melting point (℃)	1390
Max continuous operating temperature in air (℃)	1150
Magnetic properties	non-magnetic

Temperature Factors Of Electrical Resistivity

20℃	100℃	200℃	300℃	400℃	500℃	600℃
1	1.011	1.024	1.038	1.052	1.064	1.069
700℃	800℃	900℃	1000℃	1100℃	1200℃	1300℃
1.073	1.078	1.088	1.095	1.109	-	-

Style of supply

Alloys Name	Type	Dimension	
Ualloy112W	Wire	D= 0.03~8mm	
Ualloy112R	Ribbon	W= 0.4~40mm	T= 0.03~2.9mm
Ualloy112S	Strip	W= 8~250mm	T= 0.1~3.0
Ualloy112F	Foil	W= 6~120mm	T= 0.003~0.1
Ualloy112B	Bar	Dia= 8~100mm	L= 50~1000

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