

## Resistance Alloy Cr20Ni30

### Standard

EN: NiCr3020 / 1.4860  
 GB/T 1234: Cr20Ni30

### Chemical Composition (%)

Ni: 30-34  
 Cr: 18-21  
 Fe: Remainder

### Physical Properties

Density (g/cm <sup>3</sup> )	7.9
Resistivity (μΩ/m)	1.04
Coefficient of thermal expansion 10 <sup>-6</sup> /K	19
Thermal conductivity W/(m*K)	13
Melting point (°C)	1390
Max. Working Temperature (°C)	1100

\*value for the lowest temper class

### Applications

Olid hot plates,open coil heaters in HVAC systems,night-storage heaters,convection heaters,heavy duty rheostats and fan heaters. And also used for heating cables and rope heaters in defrosting and de-icing elements,electric blankets and pads, car seats,baseboard heaters,floor heaters and resistors.

### Merit

Cr20Ni30 is an ideal material, it has good ductility,workability and weldability under high temperature and seismic strength.

Nickel-chromium alloy with high and stable resistance, corrosion resistance, surface oxidation resistance, excellent coil-forming ability.

### Mechanical Properties

Tensile strength	Elongation(%)	
Mpa	Dia. > 3.0mm(Wire)	Dia. 0.1-3.0mm(Wire)
	Thk. > 0.2mm(Strip)	Thk. > 0.2mm(Strip)
min. 600	min. 25	min. 20

Physical properties of the above materials are conventional performance indicators.If you have some special requirements,(for example property and tolerance).please contact Kinmachi Company directly, we will give you professional assessments and answers.

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