

Resistance Alloy Cr15Ni60

Standard

DIN17471: NiCr6015 / 2.4867
 UNS: N06004
 ASTM: 60Ni-16Cr
 JIS: NCHW2 / NCHRW2
 GB/T: Cr15Ni60

Chemical Composition (%)

Ni: 55-61
 Cr: 14-18
 Fe: Remainder

Physical Properties

Density (g/cm ³)	8.21
Resistivity (μΩ/m)	1.12
Coefficient of thermal expansion 10 ⁻⁶ /K	17
Thermal conductivity W/(m*K)	13
Melting point (°C)	1390
Max. Working Temperature (°C)	1150

*value for the lowest temper class

Applications

The alloy is suitable for the production of precision, normal and shunt resistors.

Merit

Cr15Ni60 is an austenitic nickel-chromium alloy for use at temperatures up to 1150 °C. It has excellent corrosion resistance and excellent performance. Heat resistant alloy applied in oxidizing atmospheres such as nitrogen, ammonia, unstable atmospheres containing sulfur and sulfur compounds. Cr15Ni60 has higher heat-resisting characteristic than Iron-aluminum alloys.

Mechanical Properties

Tensile strength	Elongation(%)	
	Dia. > 3.0mm(Wire)	Dia. 0.1-3.0mm(Wire)
Mpa	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.