

Resistance Alloy CuMn12Ni2

Standard

DIN: CuMn12Ni / 2.1362
EN: CuMn12Ni2
GB/T: 6J13

Chemical Composition (%)

Cu: Remainder
Mn: 12
Ni: 2.0

Physical Properties

Density (g/cm ³)	8.4
Electrical conductivity IACS%(20°C)*	4.1
Resistivity (μΩ/m)	0.43±5%
Modulus of elasticity (KN/mm ²)	130
Coefficient of thermal expansion 10 ⁻⁶ /K	19.5
Thermal conductivity W/(m*K)	22

*value for the lowest temper class

Applications

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

Merit

CuMn12Ni2 is a resistance alloy characterised by its low temperature coefficient of the electric resistance and its low thermal electromotive force versus copper. The alloy also exhibits long-term stability of its electric resistance.

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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