



RESISTANCE ALLOYS

ELSCHUKOM offers a variety of different alloys based on nickel.

we select our resistance alloys specifically according to

- corrosion resistance,
- specific electrical resistance,
- temperature coefficient of electrical resistance,
- thermoelectric voltage

you would like your suitable wire solution to be created on the basis of this resistance alloy? Benefit from our strengths at **ELSCHUKOM**:

- (further) processing, finishing with us in-house
- electroplated or insulating coatings
- small and very small quantities
- individual special solutions in the product range



thermographic measurement on a loaded wire

thanks to our partnership with one of the world's leading manufacturers for resistance alloys, thermoalloys, precision and line resistors, we can offer you a wide range of wire materials.

CHOICE OF ALLOYS.

- **based on nickel-chromium:**
particularly high specific electrical resistance, high tensile strengths and low thermal conductivity
- **based on copper-nickel:**
adjustable specific resistance via the copper content, particular corrosion resistance
- **based on iron-nickel:**
particularly high temperature coefficient of electrical resistance and low coefficient of linear expansion

short form according to DIN	material-#
NiCr20AlSi	2.4872
NiCr6015	2.4867
NiCr8020	2.4869
CuNi44	2.0842
CuMn3	2.1356
CuMn12Ni	2.1362
CuNi30Mn	2.0890
NiFe30	-
FeNi36	1.3912
CuNi23Mn	2.0881
CuNi10	2.0811
CuNi6	2.0807
Ni99,98	-
CuNi2	2.0802
CuNi1	-



DELIVERY TYPE.

coil design

diameter in mm	recommended coil	recommended weight per coil in g
0,015 – 0,080	K50	50 – 150
0,015 – 0,100	K63	100 – 300
0,080 – 0,500	K80	350 – 800
0,250 – 0,600	K160	2000 – 6000

(ELSCHUKOM standard, deviations possible on request)

furthermore, customer-specific flat and profiled wires as well as customized and surface-treated wire solutions can be provided. get inspired from our information sheet „flat and profiled wires“.

our resistance alloys meet the highest requirements for precision and quality in terms of chemical, mechanical and electrical properties.

as a result, our resistance alloys are used in a wide range of industries.

 **ELECTRICAL RESISTORS.**

 **HEATING WIRES.**

 **AUTOMOBILE INDUSTRY.**

 **AUTOMATION AND CONTROL TECHNOLOGY.**

 **STRANDED WIRES.**

 **SENSORS.**

 **MEDICAL ENGINEERING.**

 **FUSES.**

 **HOME ELECTRONICS.**

 **MUSICAL INSTRUMENTS.**

would you like to learn more about our resistance alloys?
ask for our data sheets or contact us directly:



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