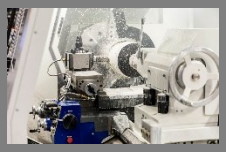
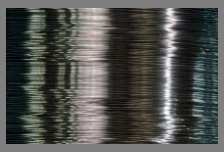
# Technical Datasheet
# CuNi44Mn1

## Characteristics and scope of application

- This very corrosion resistant heating resistor material also has got a very low coefficient of thermal expansion.
- We usually manufacture within a +/-3% tolerance of the electrical resistivity.

## Standard designations

- DN designation Vernicon
- Alloy number / UNS 2.0842 / C72150
- Norms DIN 17471 (DIN 17664) ASTM B151
- Typical chemical composition Cu 55%, Ni 44%

## Physical properties

| Density | Temperature liquidus line | Electrical resistivity | Mean coefficient of thermal expansion |
|---|---|---|---|
| kg/dm³ | °C | Ohm mm²/m | $10^{-6}$/K \| RT to 100°C |
| 8.9 | 1300 | 0.49 | 13.5 |

## Mechanical properties

| Ultimate tensile strength | Yield strength | Elongation |
|---|---|---|
| MPa | MPa | % |
| 420* | - | 25* |

* soft annealed

Deutsche Nickel