



### Characteristics and scope of application

- This heating resistor material is more resistant to scaling than the alloys containing less nickel.
- We usually manufacture within a +/-5% tolerance of the electrical resistivity.

### Standard designations

- DN designation CuNi23Mn
- Alloy number / UNS 2.0881 / C71100
- Norms DIN 17471 / ASTM B267
- Typical chemical composition Cu 76%, Ni 23%, Mn 0.5%

### Physical properties

Density	Temperature liquidus line	Electrical resistivity	Mean coefficient of thermal expansion
kg/dm <sup>3</sup>	°C	Ohm mm <sup>2</sup> /m	10 <sup>-6</sup> /K   RT to 100°C
8.9	1200	0.30	16

### Mechanical properties

Ultimate tensile strength	Yield strength	Elongation
MPa	MPa	%
350*	-	25*

\* soft annealed