



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
lb/in ³	°F	Ohm CMF	10 ⁻⁶ /°F 68 to 212°F
0.32	2192	180	8.9

Mechanical properties

Ultimate tensile strength	Yield strength	Elongation
ksi	ksi	%
51*	-	25*

* soft annealed