

Technical Datasheet

Dilaton 36M



Characteristics and scope of application

- This alloy has got a low slope in permeability at low magnetic fields up to 100 mOe.
- Best magnetic values can only be obtained with a suitable final annealing of the finished part.

Standard designations

- DN designation Dilaton 36M
- Alloy number / UNS 1.3911 / -
- Norms DIN 17745
- Typical chemical composition Ni 36%, Fe 64%

Physical properties

Density	Temperature liquidus line	Inflection temperature	Electrical resistivity	Coercivity	Mean coefficient of thermal expansion
kg/dm ³	°C	°C	Ohm mm ² /m	Hc [A/m]	10 ⁻⁶ /K RT to 100°C
8.1	1435	280	0.79	< 24	max. 1.3

Mechanical properties

Ultimate tensile strength	Yield strength	Elongation
MPa	MPa	%
490*	270*	40*

* soft annealed