



Characteristics and scope of application

- Alloy with special CTE for melting into soft glasses

Standard designations

- DN designation Dilaton 42
- Alloy number / UNS 1.3917 / -
- Norms DIN 17745 / SEW 385
- Typical chemical composition Ni 42%, Fe 58%

Physical properties

Density	Temperature liquidus line	Inflection temperature	Electrical resistivity	Mean coefficient of thermal expansion
kg/dm ³	°C	°C	Ohm mm ² /m	10 ⁻⁶ /K RT to 300°C
8.2	1440	400	0.63	4.0 – 5.8

Mechanical properties

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

* soft annealed