



Characteristics and scope of application

- Alloy with special CTE for melting into soft glasses

Standard designations

- DN designation Dilaton 41
- Alloy number / UNS - / K94100
- Norms ASTM F30
- Typical chemical composition Ni 41%, Fe 59%

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
8.2	1440	400	0.63	4.0 – 4.7 (30 – 300°C) 6.7 – 7.4 (30 – 400°C)

Mechanical properties

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

* soft annealed