



### Characteristics and scope of application

- Alloy with special CTE for melting into soft glasses

### Standard designations

- DN designation Dilaton 52
- Alloy number / UNS - / -
- Norms ASTM F30
- Typical chemical composition Ni 52%, Fe 48%

### Physical properties

Density	Temperature liquidus line	Inflection temperature	Electrical resistivity	Mean coefficient of thermal expansion
kg/dm <sup>3</sup>	°C	°C	Ohm mm <sup>2</sup> /m	10 <sup>-6</sup> /K
8.3	1450	515	0.34	9.9 – 10.5 (30 – 450°C) 10.0 – 10.7 (30 – 550°C)

### Mechanical properties

Ultimate tensile strength	Yield strength	Elongation
MPa	MPa	%
510*	280*	40*

\* soft annealed