



Characteristics and scope of application

- Alloy with special CTE for melting into soft glasses.

Standard designations

- DN designation Dilaton 51
- Alloy number / UNS 2.4478 / N14052
- Norms DIN 17745 / SEW 385 / ASTM F30
- Typical chemical composition Ni 51%, Fe 49%

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 30 to 450°C
8.3	1450	500	0.38	9.7 – 10.2

Mechanical properties

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

* soft annealed