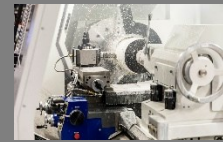


Technical Datasheet NiCo 29/18 (Alloy K)



Characteristics and scope of application

- Alloy with special CTE for melting into soft glasses

Standard designations

- DN designation Dilaton 29/18
- Alloy number / UNS 1.3981 / K94610
- Norms DIN 17745 / SEW 385 / ASTM F15
- Typical chemical composition Ni 29%, Co 18%, Fe 53%

Physical properties

Density	Temperature liquidus line	Inflection temperature	Electrical resistivity	Mean coefficient of thermal expansion
lb/in ³	°F	°F	Ohm CMF	10 ⁻⁶ /°F 68 to 752°F
0.30	2642	806	267	2.6 – 3.1

Mechanical properties

Ultimate tensile strength	Yield strength	Elongation
ksi	ksi	%
77*	39*	40*

* soft annealed