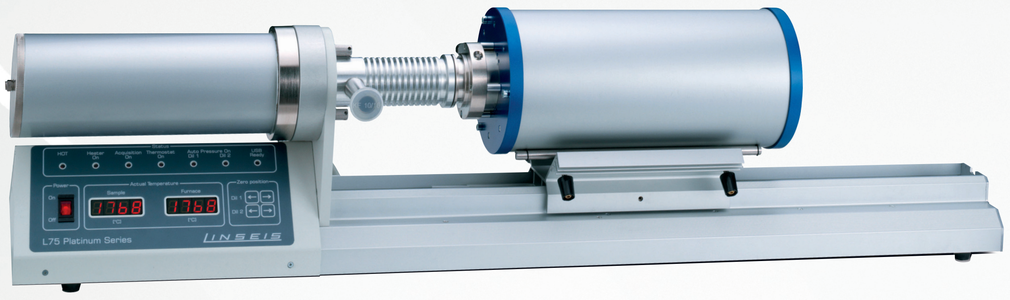
Dilatometry

LINSEIS THERMAL ANALYSIS



DIL L 75 Horizontal

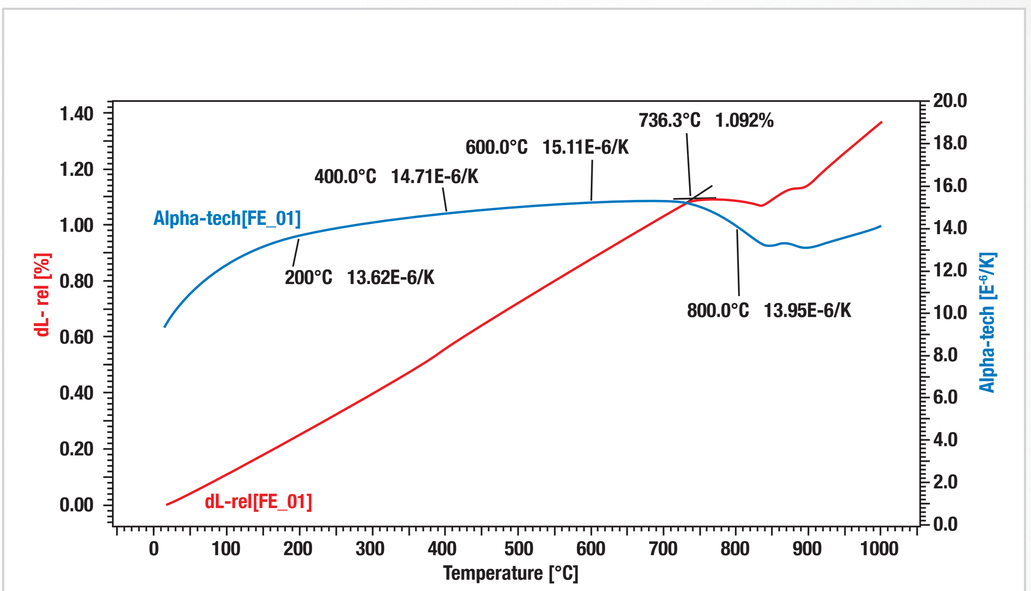
The technique

A dilatometer is a precision instrument for the measurement of dimensional changes in a material as a function of temperature. Dilatometry can be used to test a wide range of material including traditional and advanced ceramics, glasses, metals, and polymers.
The horizontal Dual- and Differential- Dilatometer (DIL) series L75H was developed to meet the demands of the academic community and research laboratories worldwide.

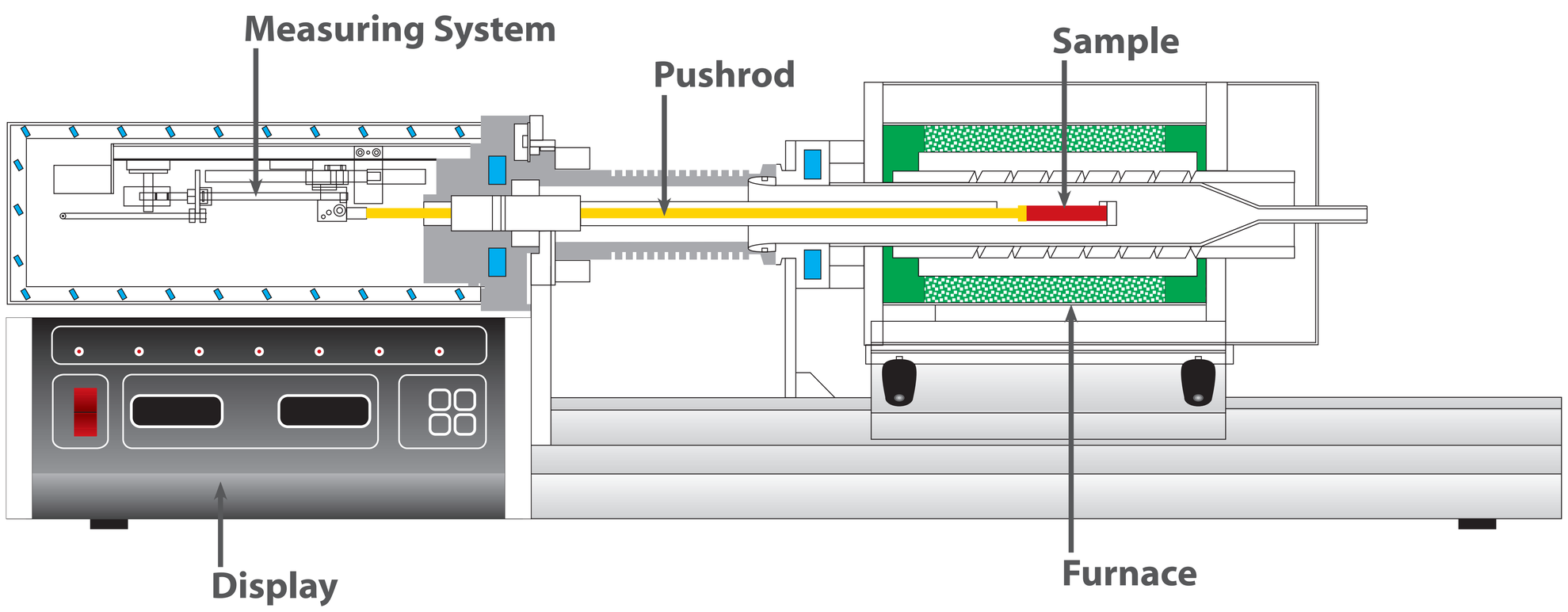
MEASURED PROPERTIES

- Linear thermal expansion
- Coefficient of thermal expansion (CTE)
- Sintering temperature
- Shrinkage steps
- Phase transitions
- Density change
- Softening point
- Decomposition temperature
- Anisotropic behavior
- Glass transition temperature

CTE of Iron under Argon atmosphere



Cross-section of DIL L75 Horizontal



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