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ASTM International Technical Committee E37 on Thermal Measurements

SCOPE

The scope of the Committee shall be to advance and encourage the development and application of thermal measurements by the coordination and development of standard methods of test, practices, nomenclature and definitions of thermal measurements in cooperation with other technical committees of the Society and other national and international organizations; to cooperate with organizations concerned with the preparation and distribution of standard reference materials; and to provide a forum for the exchange of information in the field of thermal measurements.

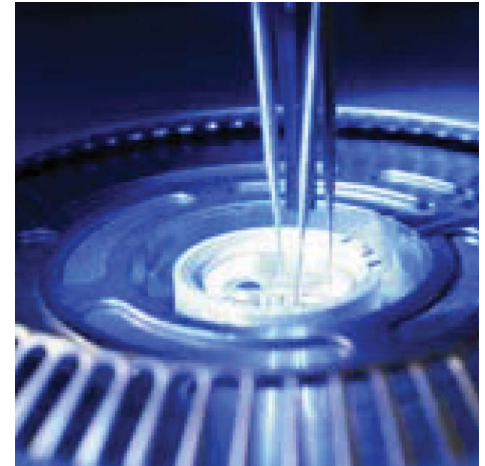
The principle areas of interest include the application of thermal analysis, rheometric and calorimetric techniques (such as thermogravimetry, differential thermal analysis, differential scanning calorimetry, and thermomechanical analysis) and the measurement of thermophysical properties (such as thermal conductivity, thermal diffusivity, specific heat capacity, and thermal expansion).

TECHNICAL SUBCOMMITTEES

- E37.01 Calorimetry and Mass Loss
- E37.02 Reference Materials
- E37.03 Nomenclature and Definitions
- E37.05 Thermophysical Properties
- E37.08 Rheology
- E37.09 Microcalorimetry
- E37.10 Fundamental, Statistical and Mechanical Properties
- E37.90 Executive

KEY DOCUMENTS

- E228** — Standard Test Method for Linear Thermal Expansion of Solid Materials With a Push-Rod Dilatometer
- E1461** — Standard Test Method for Thermal Diffusivity by the Flash Method
- E1530** — Standard Test Method for Evaluating the Resistance to Thermal Transmission of Materials by the Guarded Heat Flow Meter Technique
- E1582** — Standard Practice for Calibration of Temperature Scale for Thermogravimetry
- E1868** — Standard Test Methods for Loss-On-Drying by Thermogravimetry
- E2510** — Standard Test Method for Torque Calibration or Conformance of Rheometers



QUICK FACTS

Established 1973

Number of Members 120+

Number of Standards 68

Global Participation

21 countries represented

The standards are available in

Volume 14.01 in the *Annual Book of ASTM Standards*

Meetings E37 meets twice annually in March and September

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Learn more about Committee E37

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