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100 Barr Harbor Drive
P.O. Box C700
West Conshohocken, PA
19428-2959
USA

tel +1.610.832.9500
fax +1.610.832.9555
memserv@astm.org
www.astm.org

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

Learn more about Committee E37
www.astm.org/COMMIT/E37



Quick Facts

Established 1973
Number of Members 120+
Number of Standards 68
Global Participation
21 Countries represented
The standards are available in
Volume 14.05 in the *Annual Book of ASTM Standards*
Meetings E37 meets twice each year, in March and August

Staff Manager

Tom O'Toole
ASTM International
Headquarters
100 Barr Harbor Drive
West Conshohocken, PA 19428
USA

tel +1 610.832.9739
totoole@astm.org

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