



ASTM INTERNATIONAL  
Helping our world work better

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 E27 on Hazard Potential of Chemicals

## Scope

The scope of the Committee shall be the development and standardization of physical and chemical test methods, nomenclature, and the promotion of knowledge and stimulation of research bearing on the hazard potential of chemicals related to fire explosion, and uncontrolled energy release. Assessment of hazard potential does not include human health-related effects.

The area of interest to the Committee is the development of test procedures for determining the degree of susceptibility of materials to ignition or release of energy under varying industrial conditions. This includes experimental procedures and estimation methods.

The work of this Committee will be coordinated with other ASTM committees and other organizations having mutual interest.

## Technical Subcommittees

- E27.01 Editorial and Nomenclature
- E27.02 Thermal Stability and Condensed Phases
- E27.04 Flammability and Ignitability of Chemicals
- E27.05 Explosibility and Ignitability of Dust Clouds
- E27.06 Awards
- E27.07 Estimation Methods
- E27.90 Executive

## Key Documents

- DS51G Computer Program for Chemical Thermodynamic and Energy Release Evaluation -- CHETAH® Version 10.0
- E659 Standard Test Method for Autoignition Temperature of Chemicals
- E698 Standard Test Method for Arrhenius Kinetic Constants for Thermally Unstable Materials Using Differential Scanning Calorimetry and the Flynn/Wall/Ozawa Method
- E2019 Standard Test Method for Minimum Ignition Energy of a Dust Cloud in Air



## Quick Facts

**Established** 1967

**Number of Members** 70+

**Number of Standards** 21

**Global Participation**

12 Countries represented

**The standards are available in**

Volume 14.05 in the *Annual*

*Book of ASTM Standards*

**Meetings** E27 meets twice each year, in May and November

**Staff Manager**

Krista Robbins

ASTM International

Headquarters

100 Barr Harbor Drive

West Conshohocken, PA 19428

USA

tel +1 610.832.9689

krobbins@astm.org

**Learn more about Committee E27**  
[www.astm.org/COMMIT/E27](http://www.astm.org/COMMIT/E27)

**Join ASTM**  
[www.astm.org/join](http://www.astm.org/join)