

## About ASTM International

ASTM International is one of the largest standards development and delivery systems in the world. ASTM standards are voluntary consensus documents that guide in research, design, manufacturing, marketing and trade. For more than a century, ASTM has met the technical needs of commerce by providing standards that are accepted and used around the world.

ASTM's market relevance is evident in more than 100 industrial and management sectors ranging from construction materials and environmental assessment to medical devices and consumer products. 136 nations are represented in ASTM International.

ASTM standards are developed by technical experts who are the members of ASTM International. Membership is open to all who have an interest in the standards affecting business and industry. You too can join the 30,000 individuals and institutions who set the standard for the rest of the world in ASTM International.



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# ASTM International

## Committee F40 on Declarable Substances in Materials



ASTM Committee F40 includes some 150 members who work on three technical subcommittees – F40.01 on Test Methods, F40.02 on Management Practices and Guides, and F40.03 on Monitoring and Research of Legislation and Regulations – that develop and maintain the committee's standards.

The committee develops test methods for substances within materials; researches existing laws, codes, regulations and standards; and acts as a liaison among the various groups interested in standardization related to substance regulations.

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**Regulations restricting materials used in finished goods** pose challenges to today's global manufacturing and supply infrastructure. REACH (Registration, Evaluation and Authorization of Chemicals) and RoHS (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment), two such regulations, aim to restrict hazardous substances in products to minimize exposure to people and the environment. Consequently, companies around the world must demonstrate compliance.

To respond to the need for standards that enable industry to comply with these directives, ASTM International Committee F40 on Declarable Substances in Materials organized in early 2005. The committee's scope is to develop standards to assist companies with compliance to REACH, RoHS and similar regulations.

Focused on developing standards to test raw materials and assist with supply chain movement, Committee F40's approach will ultimately bring down the cost of compliance because it allows the entire supply chain to refer to the raw material purchase order to meet compliance.



### The Committee F40 Approach

**Bottom up:** ASTM International Committee F40 will develop standards focused on testing of raw materials, not parts or finished goods.

**Benefits:** This will ultimately bring down the cost of compliance by allowing the entire supply chain to refer to the raw material purchase order to meet compliance, which could make material declaration unnecessary.

## MEETINGS

F40 meets twice a year, in April and November, with approximately 30 members attending three days of technical meetings (every third or fourth meeting of F40 is held outside the United States).

### Membership in ASTM International and Committee F40

ASTM International provides a management system for Committee F40's development of standards and information for materials, products, systems and services used internationally as well as nationally. All segments of industry (producers, users, consumers, government and academia) participate in the development of this information to ensure that all technical viewpoints are represented – it is extremely important that all parties are confident they will have fair and equal representation in the development of the final consensus standards. Finally, ASTM provides leadership and management support for more than 130 other standards developing committees. These committees have produced more than 12,000 standards for an extremely diverse collection of industries and are supported by liaison activities through Committee F40.

ASTM International opens its doors to all technical experts with an interest in the standardization process. As a member of ASTM Committee F40, you will be exposed to the robust resources and member benefits that have helped make ASTM a worldwide standards development leader for more than a century. As an ASTM member, you will have the opportunity to:

- Network with industry professionals worldwide;
- Receive a free volume of your choice of the *Annual Book of ASTM Standards* (in print or CD);
- Use Web-based standards development forums and e-balloting;
- Receive discounts on all ASTM publications;
- Stay informed with a free subscription to *ASTM Standardization News* and e-newsletter; and
- Benefit from reduced fees for attendance at ASTM symposia and technical workshops.

Individuals with knowledge of and interest in the work of F40 are welcome to participate on the committee. The annual fee to be an informational or participating member of ASTM International is \$75.00. To join, please visit the Membership section of the ASTM Web site ([www.astm.org/MEMBERSHIP](http://www.astm.org/MEMBERSHIP)).

Annual membership provides access to multiple technical committees at no additional cost.

## COMMITTEE STRUCTURE

### F40.01 on Test Methods

**Subcommittee Chair:** Scott MacLeod, Underwriters Laboratories

**Subcommittee Vice Chair:** Richard Carlson, Dionex Corp.

This subcommittee's primary objective is the development of standard test methods related to declarable substances in materials and products to assist manufacturing supply chains in various industries with compliance requirements.

**F2617**, Test Method for Identification and Quantification of Chromium, Bromine, Cadmium, Mercury and Lead in Polymeric Material Using Energy Dispersive X-Ray Spectrometry (EDXRF)

**WK9866**, Test Method for Analysis of Tin-Based Solder Alloys and Pastes for Lead, Cadmium, Mercury, Antimony and Bismuth Using Inductively Coupled Plasma Atomic Emission Spectrometry

**WK15289**, Test Methods for Analysis of Heavy Metals in Glass Using X-Ray Fluorescence (XRF)

**WK15434**, Test Method for Analysis of Tin-Based Solder Alloys Using Optical Emission Spectrometry

**WK21957**, Identification and Quantification of Lead in Paint and Other Coatings Using Energy Dispersive X-Ray Spectrometry (EDXRF)

**WK23333**, Test Method for Analysis of Heavy Metals in Glass by Field Portable X-Ray Fluorescence (XRF)

### F40.02 on Management Practices and Guides

**Subcommittee Chair:** Roland Chin, Intel

This subcommittee will establish standards for managing information related to the declaration of substances in materials, which will include standards for a declaration of conformance; the disclosure and transfer of test results; general material, substance disclosure and standard practices for exchanging such information. These standards will assist suppliers and purchasers in harmonizing requests and requirements throughout the supply chain.

**F2577-06**, Standard Guide for Assessment of Materials and Products for Declarable Substances

**F2725-08**, Standard Guide for European Union's Registration, Evaluation and Authorization of Chemicals (REACH) Supply Chain Information Exchange

**WK19940**, Analytical Test Methods for Substances of Very High Concern in Electronics Products

### F40.03 on Monitoring and Research of Legislation and Regulations

**Subcommittee Chair:** Geoffrey Bock, TUV Rheinland of North America

ASTM International is in contract with ENHESA, which has developed a regulatory database to track declarable substance regulations worldwide. The database can be searched by region, byproduct or by declarable substance.

## COMMITTEE F40 - Published Standards

**ASTM F2576** Standard Terminology Relating to Declarable Substances in Materials

This standard contains terms, definitions, descriptions of terms, nomenclature and explanations of acronyms and symbols specifically associated with standards under the jurisdiction of Committee F40 on Declarable Substances in Materials.

**ASTM F2577** Standard Guide for Assessment of Materials and Products for Declarable Substances

This guide uses case studies to illustrate the decision process whether to assess materials and products for declarable substances when evaluating conformance to relevant requirements, which may be accomplished by applying existing knowledge to determine the need for further action (for example, testing).

**ASTM F2617** Standard Test Method for Identification and Quantification of Chromium, Bromine, Cadmium, Mercury and Lead in Polymeric Material Using Energy Dispersive X-Ray Spectrometry

The F2617 test describes an energy dispersive X-ray spectrometric procedure for identifying and quantifying elemental lead, mercury, cadmium, chromium and bromine in polymeric materials that do not require additional sample preparation (for example, cutting, grinding or mixing) in order to obtain a representative sample for testing. The method helps industry to comply uniformly with governmental regulations in the field of restricted substances in polymeric materials.

**F2725-08** Standard Guide for European Union's Registration, Evaluation and Authorization of Chemicals (REACH) Supply Chain Information Exchange

This guide recommends practices and solutions for global supply chain information exchange for substances, preparations and articles as identified by REACH.

All approved F40 standards are published annually in Volume 10.04 of the *Annual Book of ASTM Standards*. Standards are available in hard copy, CD and virtual volume format and are available for purchase by contacting ASTM Customer Service (phone: 610-832-9585; service@astm.org) or through the ASTM International Web site at [www.astm.org](http://www.astm.org). The scopes of all ASTM International standards can be found on the ASTM Web site.

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## F40 AT A GLANCE

- 150 members
- 13 countries represented
- 3 technical subcommittees
- 4 published standards
- Organized in 2005
- Database tracking declarable substance regulations worldwide



## COMMITTEE F40 OFFICERS

**Chairman:** Timothy J. McGrady, LG Electronics USA, Inc.

**Vice Chairman:** Taco Van Der Maten, Panalytical

**Recording Secretary:** Anne W. Kaplan, DuPont Engineering Polymers

**Membership Secretary:** John E. Martin, SPEXSamplePrep

