



MEETINGS

ASTM Committee E01 meets twice a year, in May and November, with more than 40 members attending two days of technical meetings.

MEMBERSHIP IN ASTM INTERNATIONAL AND COMMITTEE E01

ASTM International welcomes all technical experts with a desire to work toward further development of international standards. Membership and participation in the activities of Committee E01 provide the opportunity to:

- Network with technical professionals worldwide;
- Have direct input into the development of new and revised standards;
- Participate in informational webinars;
- Receive a free volume of the *Annual Book of ASTM Standards* (print, CD, or virtual volume);
- Enjoy discounts on all ASTM publications;
- Received free subscriptions to *ASTM Standardization News* and *ASTM eNews*; and
- Benefit from reduced attendance fees at ASTM symposia and technical workshops.

The annual fee to be an informational or participating member of ASTM International is \$75 USD. Annual membership provides access to multiple technical committees at no additional cost. Visit www.astm.org/JOIN.

ABOUT ASTM INTERNATIONAL

Established in 1898, ASTM International is a globally recognized leader in the development and delivery of international voluntary consensus standards. Today, some 12,000 ASTM standards are used around the world to improve product quality, enhance safety, facilitate market access and trade, and build consumer confidence.

ASTM's leadership in international standards development is driven by the contributions of its members: more than 30,000 of the world's top technical experts and business professionals representing more than 140 countries. Working in an open and transparent process and using ASTM's best-in-class standards development infrastructure, ASTM members deliver standard test methods, specifications, guides and practices that support industries and governments worldwide.

ASTM International meets the World Trade Organization (WTO) principles for the development of international standards: coherence, consensus, development dimension, effectiveness, impartiality, openness, relevance and transparency. ASTM standards are accepted and used in research and development, product testing, quality systems and commercial transactions around the globe.

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ASTM International Committee E01 on Analytical Chemistry for Metals, Ores and Related Materials

ASTM International Committee E01 develops international standard test methods, practices and guides that address sampling and testing of metals, ores and related materials. The committee also addresses interlaboratory testing, statistical evaluations and physical testing of refractories. Formed in 1990, E01 includes more 230 technical experts from 12 countries who oversee 123 international standards.



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E01 SUBCOMMITTEES

Committee E01 develops standards through the work of several technical subcommittees that cover various related subjects:

- E01.01** Iron, Steel and Ferroalloys
- E01.02** Ores, Concentrates and Related Metallurgical Materials
- E01.04** Aluminum and Magnesium
- E01.05** Cu, Pb, Zn, Cd, Sn, Be, Precious Metals, Their Alloys and Related Metals
- E01.06** Ti, Zr, W, Mo, Ta, Nb, Hf, Re
- E01.08** Ni and Co and High Temperature Alloys
- E01.20** Fundamental Practices
- E01.22** Laboratory Quality
- E01.23** Terminology and Editorial



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For a complete guide to the work of Committee E01, visit
www.astm.org/COMMIT/E01

PROFICIENCY TESTING PROGRAMS

ASTM Proficiency Testing Programs (PTP) are statistical quality assurance programs that enable laboratories to assess their performance in conducting test methods within their own facilities when their data are compared against other labs that participate worldwide in the same program.

Committee E01 provides technical direction for several PTP programs. Test information generated in the program is utilized by Committee E01 to determine if modifications to ASTM documents or new standards are warranted.

E01 PROGRAMS

Chemical Analysis of Aluminum - This PTP includes the quantitative analysis of two different 6000 and 300 series aluminum alloys. Basic elements to be determined by participants include silicon, iron, copper, manganese, chromium, nickel, zinc, vanadium, lead, magnesium, titanium and tin.

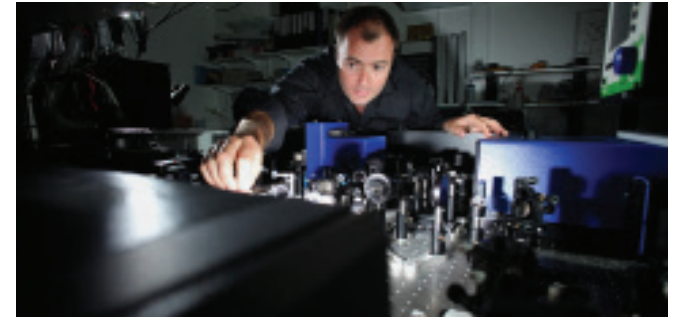
Chemical Analysis of Plain Carbon and Low-Alloy Steel - Basic elements to be determined by participants include carbon, manganese, phosphorus, sulfur, silicon, copper, nickel, chromium, molybdenum, aluminum and tin. Additional elements are included in the program from time to time.

Determination of Gold Bullion by Cupellation - Fire assay cupellation has been used by gold refiners, fabricators, mines and mints for the analysis of gold in bullion. This program provides participating labs the opportunity to evaluate the accuracy of their assays, using a clear and defined standardized testing procedure.

Chemical Analysis of Stainless Steel - Basic elements to be determined by participants include carbon, manganese, phosphorus, sulfur, silicon, copper, nickel, chromium, molybdenum, aluminum and tin.

Visit www.astm.org/STATQA to learn more.

Standards are available for purchase in hard copy, CD and virtual volume format at www.astm.org or by contacting ASTM Customer Relations (phone: 877-909-ASTM; sales@astm.org).



E01 STANDARDS

The subcommittees of Committee E01 oversee **123** standards published in Volume 03.05 of the *Annual Book of ASTM Standards*. Some of the committee's key standards are listed below.

- ASTM E415**, Standard Test Method for Atomic Emission Vacuum Spectrometric Analysis of Carbon and Low-Alloy Steel
- ASTM E716**, Standard Practices for Sampling and Sample Preparation of Aluminum and Aluminum Alloys for Determination of Chemical Composition by Spectrochemical Analysis
- ASTM E1019**, Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel and in Iron, Nickel, and Cobalt Alloys
- ASTM E1251**, Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry
- ASTM E1335**, Standard Test Methods for Determination of Gold in Bullion by Fire Assay Cupellation Analysis
- ASTM E1447**, Standard Test Method for Determination of Hydrogen in Titanium and Titanium Alloys by the Inert Gas Fusion Thermal Conductivity/Infrared Detection Method
- ASTM E1601**, Standard Practice for Conducting an Interlaboratory Study to Evaluate the Performance of an Analytical Method
- ASTM E2626**, Standard Guide for Spectrometric Analysis of Reactive and Refractory Metals
- ASTM E2792**, Standard Test Method for Determination of Hydrogen in Aluminum and Aluminum Alloys by Inert Gas Fusion
- ASTM E2823**, Standard Test Method for Analysis of Nickel Alloys by Inductively Coupled Plasma Mass Spectrometry (Performance-Based Method)