



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
members@astm.org
www.astm.org

ASTM Technical Committee E04 on Metallography

Scope

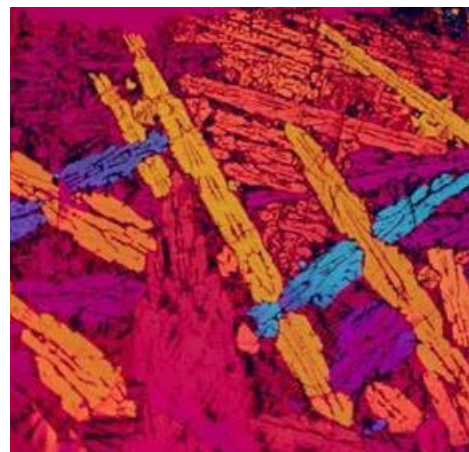
The scope of the Committee shall be: (a) The jurisdiction over standard methods, practices, nomenclature, definitions, and procedures for presenting data in the field of metallography. (b) The development of methods for the preparation of specimens for: metallographic procedures; photomicrography; microhardness testing; grain size measurements; determining inclusion content of metals; quantitative metallography; X-Ray metallography including diffraction analysis, texture and orientation determinations, residual stress measurements, and microradiography; electron metallography utilizing transmission electron microscopy, scanning electron microscopy, electron diffraction, and microprobe analysis; field ion microscopy; and ion microprobe and Auger analysis. The above list is not limiting in that methods will be developed as new instrumentation and/or techniques become readily available. (c) The preparation of standard practices for the optical and physical methods of metallography. (d) The standardization of phase diagram presentation. (e) The establishment of nomenclature and definitions related to the field of metallography. (f) The cooperation with agencies concerned with the preparation and distribution of standard reference materials related to metallography. (g) The advancement of the field of metallography by promoting cooperative test programs, publications of methods and practices, sponsoring symposia, and participating in photographic exhibits.

Technical Subcommittees

- E04.01 Specimen Preparation
- E04.02 Terminology
- E04.03 Light Microscopy
- E04.05 Microindentation Hardness Testing
- E04.08 Grain Size
- E04.09 Inclusions
- E04.11 X-Ray and Electron Metallography
- E04.14 Quantitative Metallography
- E04.17 Criteria for Metallographic Laboratory Evaluation and Safety

Key Documents

- E3 Standard Guide for Preparation of Metallographic Specimens
- E45 Standard Test Methods for Determining the Inclusion Content of Steel
- E112 Standard Test Methods for Determining Average Grain Size
- E384 Standard Test Method for Knoop and Vickers Hardness of Materials



Quick Facts

Established 1916

Number of Members 190+

Number of Standards 37

The standards are available in

Volume 03.01 in the *Annual Book of ASTM Standards*

Meetings E04 meets twice each year, in March and November

Staff Manager

Travis Murdock
ASTM International
Headquarters
100 Barr Harbor Drive
West Conshohocken, PA 19428
USA

tel +1 610.832.9826
tmurdock@astm.org

Learn more about Committee E04
www.astm.org/COMMIT/E04

Join ASTM
www.astm.org/join