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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

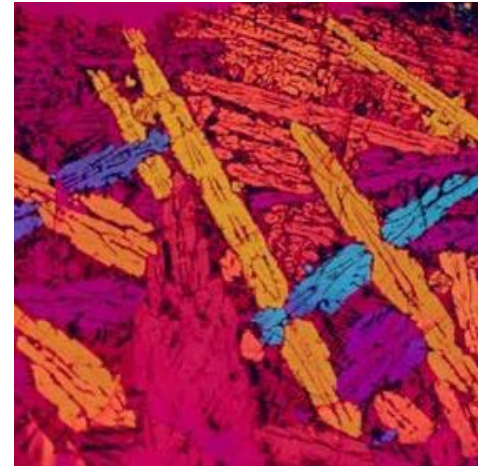
E04.09 — Inclusions

E04.11 — X-Ray and Electron Metallography

E04.14 — Quantitative Metallography

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 200+

Number of Standards 35

The standards are available in
Volume 03.01 in the *Annual Book of ASTM Standards*

Meetings E04 meets twice annually
in May and November

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Learn more about Committee E04
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