



Standard Guide for Preparation of Metallographic Specimens¹

This standard is issued under the fixed designation E 3; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 The primary objective of metallographic examinations is to reveal the constituents and structure of metals and their alloys by means of a light optical or scanning electron microscope. In special cases, the objective of the examination may require the development of less detail than in other cases but, under nearly all conditions, the proper selection and preparation of the specimen is of major importance. Because of the diversity in available equipment and the wide variety of problems encountered, the following text presents for the guidance of the metallographer only those practices which experience has shown are generally satisfactory; it cannot and does not describe the variations in technique required to solve individual specimen preparation problems.

NOTE 1—For a more extensive description of various metallographic techniques, refer to Samuels, L. E., *Metallographic Polishing by Mechanical Methods*, American Society for Metals (ASM) Metals Park, OH, 3rd Ed., 1982; Peters, G., *Metallographic Etching*, ASM, 1978; and Vanderhoff, G., *Metallography: Principles and Practice*, McGraw-Hill, NY, 2nd Ed., 1969.

1.2 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:

- A 90/A 90M Standard Test Method for Weight (Mass) of Coating on Iron and Steel with Zinc or Zinc-Alloy Coatings
- E 7 Terminology Relating to Metallography²
- E 45 Practice for Determining the Inclusion Content of Steel²
- E 340 Test Method for Macroetching Metals and Alloys²
- E 407 Test Methods for Microetching Metals and Alloys²
- E 768 Practice for Preparing and Evaluating Specimens for Automatic Inclusion Assessment of Steel²

- E 1077 Test Method for Estimating the Depth of Decarburization of Steel Specimens²
- E 1122 Practice for Obtaining JK Inclusion Ratings Using Automatic Image Analysis²
- E 1245 Practice for Determining the Inclusion or Second-Phase Constituent Content of Metals by Automatic Image Analysis²
- E 1268 Practice for Assessing the Degree of Banding or Orientation of Microstructures²
- E 1558 Guide to Electrolytic Polishing of Metallographic Specimens²
- E 1920 Guide for Metallographic Preparation of Thermal Sprayed Coatings²

3. Terminology

3.1 Definitions:

3.1.1 For definitions used in this practice, refer to Terminology E 7.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *castable mount*—a metallographic mount generally made from a two component castable plastic. One component is the resin and the other hardener. Both components can be liquid or one liquid and a powder. Castable mounts generally do not require heat and pressure to cure.

3.2.2 *compression mount*—a metallographic mount made using plastic that requires both heat and pressure for curing.

3.2.3 *planar grinding*—is the first grinding step in a preparation procedure used to bring all specimens into the same plane of polish. It is unique to semi or fully automatic preparation equipment that utilize specimen holders.

3.2.4 *rigid grinding disc*—a non-fabric support surface, such as a composite of metal/ceramic or metal/polymer charged with an abrasive (usually 6 to 15µm diamond particles), and used as the fine grinding operation in a metallographic preparation procedure.

4. Significance and Use

4.1 Microstructures have a strong influence on the properties and successful application of metals and alloys. Determination and control of microstructure requires the use of metallographic examination.

4.2 Many specifications contain a requirement regarding microstructure; hence, a major use for metallographic examination is inspection to ensure that the requirement is met. Other

¹ This guide is under the jurisdiction of ASTM Committee E04 on Metallography and is the direct responsibility of Subcommittee E04.01 on Sampling, Specimen Preparation, and Photography.

Current edition approved April 10, 2001. Published July 2001. Originally published as E 3 – 23 E. Last previous edition E 3 – 95.

² Annual Book of ASTM Standards, Vol 03.02.

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Standard Guide for Preparation of Metallographic Specimens, 2007 *ASTM E3-01*, 2009 *Metallographer's Guide B. L. Bramfitt, A.O. Benscoter*, 2001-01-01 This book provides a solid overview of the important metallurgical concepts related to the microstructures of irons and steels and it provides detailed guidelines for the proper metallographic techniques used to reveal capture and understand microstructures This book provides clearly written explanations of important concepts and step by step instructions for equipment selection and use microscopy techniques specimen preparation and etching Dozens of concise and helpful metallographic tips are included in the chapters on laboratory practices and specimen preparation The book features over 500 representative microstructures with discussions of how the structures can be altered by heat treatment and other means A handy index to these images is provided so the book can also be used as an atlas of iron and steel microstructures *Guide for Preparation of Metallographic Specimens* Malaysia. Jabatan Standard, 2009

Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies Titanium, Niobium, Zirconium, and Tantalum for Medical and Surgical Applications Lyle D. Zardiackas, Matthew J. Kraay, Howard L. Freese, 2006 *Handbook of Measurement in Science and Engineering, Volume 2* Myer Kutz, 2015-12-03 A multidisciplinary reference of engineering measurement tools techniques and applications Volume 2 When you can measure what you are speaking about and express it in numbers you know something about it but when you cannot measure it when you cannot express it in numbers your knowledge is of a meager and unsatisfactory kind it may be the beginning of knowledge but you have scarcely in your thoughts advanced to the stage of science Lord Kelvin Measurement falls at the heart of any engineering discipline and job function Whether engineers are attempting to state requirements quantitatively and demonstrate compliance to track progress and predict results or to analyze costs and benefits they must use the right tools and techniques to produce meaningful useful data The Handbook of Measurement in Science and Engineering is the most comprehensive up to date reference set on engineering measurements beyond anything on the market today Encyclopedic in scope Volume 2 spans several disciplines Materials Properties and Testing Instrumentation and Measurement Standards and covers Viscosity Measurement Corrosion Monitoring Thermal Conductivity of Engineering Materials Optical Methods for the Measurement of Thermal Conductivity Properties of Metals and Alloys Electrical Properties of Polymers Testing of Metallic

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Annual Book of ASTM Standards ASTM International, American Society for Testing and Materials, 2003

Corrosion Tests and Standards Robert Baboian, 2005

Advanced Processing of Metals and Materials (Sohn International Symposium), New, Improved and Existing Technologies Florian Kongoli, Ramana G. Reddy, 2006-09 Some of the subjects presented in this volume from the Sohn International Symposium are iron making steel batteries electronic scrap and light metals waste treatment and remediation and recycling and waste treatment From the 2006 TMS Fall Extraction Processing Sohn International Symposium held August 27 31 2006 in San Diego California

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International Metallographic Society. Technical Meeting, 2000 **Annual Book of ASTM Standards** American Society for
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authoritative information and data necessary for the appropriate selection of materials to meet critical design and
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