



Designation: E3 – 11(Reapproved 2017)

Standard Guide for Preparation of Metallographic Specimens¹

This standard is issued under the fixed designation E3; the number immediately following the designation indicates the year of original adoption or, in the case of revisions, 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 U.S. 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., *Metallography: Principles and Methods*, American Society for Metals (ASM), Metals Park, OH, 3rd Ed., 1962; Petros, G., *Metallographic Etching*, ASM, 1978; and Vanderhoff, G., *Metallography: Principles and Practice*, McGraw-Hill, NY, 2nd Ed., 1989.

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.*

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards²

- A95/A95M** Test Method for Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings³
- E7** Terminology Relating to Metallography
- E45** Test Methods for Determining the Inclusion Content of Steel
- E768** Guide for Preparing and Evaluating Specimens for Automatic Inclusion Assessment of Steel
- E1077** Test Methods for Estimating the Depth of Decarburization of Steel Specimens
- E1122** Practice for Obtaining JK Inclusion Ratings Using Automatic Image Analysis (**Withdrawn 2006**)⁴
- E1245** Practice for Determining the Inclusion or Second-Phase Constituent Content of Metals by Automatic Image Analysis
- E1268** Practice for Assessing the Degree of Banding or Orientation of Microstructures
- E1558** Guide for Electrolytic Polishing of Metallographic Specimens
- E1920** Guide for Metallographic Preparation of Thermal Sprayed Coatings

3. Terminology

3.1 Definitions:

3.1.1 For definitions used in this practice, refer to Terminology **E7**.

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

¹ This guide is under the jurisdiction of ASTM Committee E11 on Metallography and is the direct responsibility of Subcommittee E11.01 on Specimen Preparation. Current edition approved June 1, 2017. Published June 2017. Originally approved in 1925. Last previous edition approved in 2011 as E3 – 11.1. DOI: 10.1520/E030001-110117.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this standard method is referenced on www.astm.org.

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**Faisal Mahmuddin, Juraj Marek, Gregor
Pobegen, Ulrike Grossner**

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Fatigue and Fracture of Materials and Structures Grzegorz Lesiuk, Szymon Duda, José A. F. O. Correia, Abílio M. P. De Jesus, 2022-05-09 This book presents selected contributions from ICMFM XX and the Polish National Conference KKMP The XX International Colloquium on Mechanical Fatigue of Metals ICMFM XX was organized on 15-17 September 2021 in the Faculty of Mechanical Engineering of the Wrocław University of Science and Technology in Wrocław City Poland in a remote form Its aim was to facilitate and encourage the exchange of knowledge and experiences among the different communities involved in both basic and applied research in the field of fatigue of metals looking at the problem of fatigue from a multiscale perspective and exploring analytical and numerical simulative approaches without losing the perspectives of the application The Polish National Conference KKMP 2021 was organized remotely with 50-80 prominent international participants from the fracture mechanics community

Surface Modification of Metals and Alloys Oriol Rius-Ayra, Nuria Llorca-Isern, 2021-08-31 Over the past four decades there has been increased attention given to the research of fluid mechanics due to its wide application in industry and physics Major advances in the modeling of key topics such as Newtonian and non-Newtonian fluids and thin film flows have been made and finally published in the Special Issue of coatings This is an attempt to edit the Special Issue into a book Although this book is not a formal textbook it will definitely be useful for university teachers research students industrial researchers and in overcoming the difficulties occurring in the said topic while dealing with the nonlinear governing equations For such types of equations it is often more difficult to find an analytical solution or even a numerical one This book has successfully handled this challenging job with the latest techniques In addition the findings of the simulation are logically realistic and meet the standard of sufficient scientific value

Magnesium Technology 2019 Vineet V. Joshi, J. Brian Jordon, Dmytro Orlov, Neale R. Neelameggham, 2019-02-13 The Magnesium Technology Symposium the event on which this collection is based is one of the largest yearly gatherings of magnesium specialists in the world Papers represent all aspects of the field ranging from primary production to applications to recycling Moreover papers explore everything from basic research findings to industrialization Magnesium Technology 2019 covers a broad spectrum of current topics including alloys and their properties cast products and processing wrought products and processing forming joining and machining corrosion and surface finishing and structural applications In addition there is coverage of new and emerging applications

Innovations in Mechanical Engineering III Jose Machado, Filomena Soares, Justyna Trojanowska, Erika Ottaviano, Petr Valášek, Mallikarjuna Reddy D., Eduardo André Perondi, Yevheniia Basova, 2024-07-15 This book reports on innovations and engineering achievements of industrial relevance with a special emphasis on mechanical engineering developments applied to modeling simulation and design of mechanical systems and synthesis of new materials for advanced manufacturing applications It gathers peer reviewed papers presented at the 3rd International Conference Innovation in Engineering ICIE 2024 held on June 26-28 2024 in Póvoa do São Miguel

Island Azores Portugal All in all this first volume of a three volume set provides engineering researchers and professionals with a timely snapshot of technologies and strategies that should help shaping different industrial sectors to improve production efficiency industrial sustainability and human well being

Surface Modification Technology: Principles, Processes, and Industrial Application Yuli Panca Asmara, 2025-08-22 Surface engineering plays a vital role in enhancing the durability performance and reliability of materials used in various industrial applications This book Surface Modification Technology Principles and Industrial Applications offers a comprehensive exploration of key surface treatment techniques and their role in protecting engineering components from corrosion mechanical damage and environmental degradation Beginning with the fundamentals of surface degradation the book examines methods such as electropolishing coatings painting and electroplating anodizing and vapor deposition PVD CVD detailing their principles processes materials and real world applications Mechanical techniques like shot peening and surface hardening are also discussed for their effectiveness in improving fatigue strength The book concludes with a focus on heat treatment of carbon steel and the evaluation methods used to assess surface treatment effectiveness

[Encyclopedia of Renewable and Sustainable Materials](#), 2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO2 emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

Light Metals 2019 Corleen Chesonis, 2019-02-15 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2019 collection includes papers from the following symposia 1 Alumina and Bauxite 2 Aluminum Alloys Processing and Characterization 3 Aluminum Reduction Technology 4 Cast Shop Technology 5 Cast Shop Technology Energy Joint Session 6 DGM TMS Symposium on Lightweight Metals 7 Electrode Technology for Aluminum Production 8 REWAS 2019 Cast Shop Recycling Technologies 9 Scandium Extraction and Use in Aluminum Alloys 10 Ultrasonic Processing of Liquid and Solidifying Alloys

Predicting the Future Fernando Sánchez Lasheras, 2020-12-29 Due

to the increased capabilities of microprocessors and the advent of graphics processing units GPUs in recent decades the use of machine learning methodologies has become popular in many fields of science and technology This fact together with the availability of large amounts of information has meant that machine learning and Big Data have an important presence in the field of Energy This Special Issue entitled Predicting the Future Big Data and Machine Learning is focused on applications of machine learning methodologies in the field of energy Topics include but are not limited to the following big data architectures of power supply systems energy saving and efficiency models environmental effects of energy consumption prediction of occupational health and safety outcomes in the energy industry price forecast prediction of raw materials and energy management of smart buildings *Engineering Materials, Devices and Equipments* Faisal Mahmuddin, Juraj Marek, Gregor Pobegen, Ulrike Grossner, 2023-06-06 Special topic volume with invited peer reviewed papers only **5th EPI International Conference on Science and Engineering (EICSE)** Faisal Mahmuddin, 2023-07-28 Selected peer reviewed extended articles based on abstracts presented at the 5th EPI International Conference on Science and Engineering EICSE2021 Aggregated Book

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Table of Contents Astm E3 11 2017 Standard For Preparation Of

1. Understanding the eBook Astm E3 11 2017 Standard For Preparation Of
 - The Rise of Digital Reading Astm E3 11 2017 Standard For Preparation Of
 - Advantages of eBooks Over Traditional Books
2. Identifying Astm E3 11 2017 Standard For Preparation Of
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astm E3 11 2017 Standard For Preparation Of
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astm E3 11 2017 Standard For Preparation Of
 - Personalized Recommendations
 - Astm E3 11 2017 Standard For Preparation Of User Reviews and Ratings
 - Astm E3 11 2017 Standard For Preparation Of and Bestseller Lists
5. Accessing Astm E3 11 2017 Standard For Preparation Of Free and Paid eBooks

- Astm E3 11 2017 Standard For Preparation Of Public Domain eBooks
 - Astm E3 11 2017 Standard For Preparation Of eBook Subscription Services
 - Astm E3 11 2017 Standard For Preparation Of Budget-Friendly Options
6. Navigating Astm E3 11 2017 Standard For Preparation Of eBook Formats
 - ePub, PDF, MOBI, and More
 - Astm E3 11 2017 Standard For Preparation Of Compatibility with Devices
 - Astm E3 11 2017 Standard For Preparation Of Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astm E3 11 2017 Standard For Preparation Of
 - Highlighting and Note-Taking Astm E3 11 2017 Standard For Preparation Of
 - Interactive Elements Astm E3 11 2017 Standard For Preparation Of
 8. Staying Engaged with Astm E3 11 2017 Standard For Preparation Of
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astm E3 11 2017 Standard For Preparation Of
 9. Balancing eBooks and Physical Books Astm E3 11 2017 Standard For Preparation Of
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astm E3 11 2017 Standard For Preparation Of
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Astm E3 11 2017 Standard For Preparation Of
 - Setting Reading Goals Astm E3 11 2017 Standard For Preparation Of
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Astm E3 11 2017 Standard For Preparation Of
 - Fact-Checking eBook Content of Astm E3 11 2017 Standard For Preparation Of
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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