



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 approval. A superscript symbol (n) indicates an editorial change since the last revision or approval.

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 *Methods*, L. E. Metallographer, Publishing by *Microanalytical Methods*, American Society for Metals (ASM), Metals Park, OH, 3rd Ed., 1982; *Process*, G. Metallographer, *Excerpt*, ASM, 1978, and *Handbook*, G. Metallographer, *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 Barrier to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards²

- A92/A92M** 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 **plaster 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 3, 2017. Published June 2017. Originally approved in 1952. Last previous edition approved in 2011 as E3 – 11.11. DOI: 10.1520/E030001-11.0117.

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 International standard is referenced on www.astm.org.

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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 simulation 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

Material Forming Lukasz Madej, Mateusz Sitko, Konrad Perzynski, 2023-04-25 These proceedings present papers on Additive Manufacturing Composites Forming Processes Extrusion and Drawing Forging and Rolling Formability of Metallic Materials Friction and Wear in Metal Forming Incremental and Sheet Metal Forming Innovative Joining by Forming Technologies Lionel Fourment MS on Optimization and Inverse Analysis in Forming Machining and Cutting Material Behavior Modelling New and Advanced Numerical Strategies for Material Forming Non Conventional Processes Polymer Processing and Thermomechanical Properties Sustainability on Material Forming and Property Controlled Forming

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

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 Povoá do Sul 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

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

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 Steel Corrosion and Degradation of its Mechanical Properties Chun-Qing Li,Wei Yang,2021-09-19 This book presents the state of the art knowledge on corrosion of steel cast iron and ductile iron with a focus on corrosion induced degradation of their mechanical properties The information presented in the book is largely derived from the most current research on the effect of corrosion on degradation of mechanical properties The book covers the basics of steel corrosion including that of cast iron and ductile iron that are not well covered in most literature Models for corrosion induced degradation of mechanical properties are presented in the book with a view to wider applications The knowledge presented in the book can be used to prevent corrosion induced failures of corrosion affected structures offering enormous benefits to the industry business society and community Key strengths of the book are that it can be employed by a variety of users for different purposes in designing and assessing corrosion affected structures and that the knowledge and techniques presented in the book can be easily applied by users in dealing with corrosion affected structures and the uniqueness in examining the corrosion effect on degradation of various mechanical properties Wtih examples of practical applications the book is particularly useful for all stakeholders involved in steel manufacturing and construction including engineering students academicians researchers practitioners and asset managers **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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