#### Standard Guide for Preparation of Metallographic Specimens<sup>1</sup>

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Plain attendant has been approved for use by appraises of the Department of Defense.

#### 1. Scoope

I.I 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 Santucks, L. E., Menallographic Politiching by MecAonical Methods, American Society for Metals (ASM) Metals Park, OH, 3rd Ed., 1982; Petrem, G., Metallographic Etching, ASM, 1978; and Ed., 1988; Metallography: Principles and Practice, McGraw Hill, NY, 2nd Ed., 1999.

1.2 This standard does not purport to address all of the sofery 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 ASYM Standards:

A90(A90M Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings<sup>2</sup> E7 Terminology Relating to Metallography

E45 Test Methods for Determining the Inclusion Content of Steel

#### 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 contable mount—a metallographic mount generally made from a two component castable plantic. 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 planor 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 metal-lographic preparation procedure.

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)<sup>3</sup>

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 Coatines

<sup>&</sup>lt;sup>1</sup> This grade is under the particle tent of ANTM Committee EDM on Metallography and in the direct responsibility of Subconnectant EDM-01 on Specimen Preparation, Commit edition approved May 1, 2011. Published June 2011. Originally approved in PPCI. Last gravious edition approved to 2007 as ED-00(2007). DOS: 10.1529(9003.11).

<sup>\*</sup>For referenced ASTM standards, visit the ASTM website, www.astmorg, or contact ASTM Contentor Service at servicertfustrating. For Assaul Book of ASTM Standards voltage information, refer to the standard's Document Summary gage in the ASTM website.

<sup>&</sup>lt;sup>3</sup> The last approved version of this historical standard is referenced on newscattering.

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**R Bogdan** 

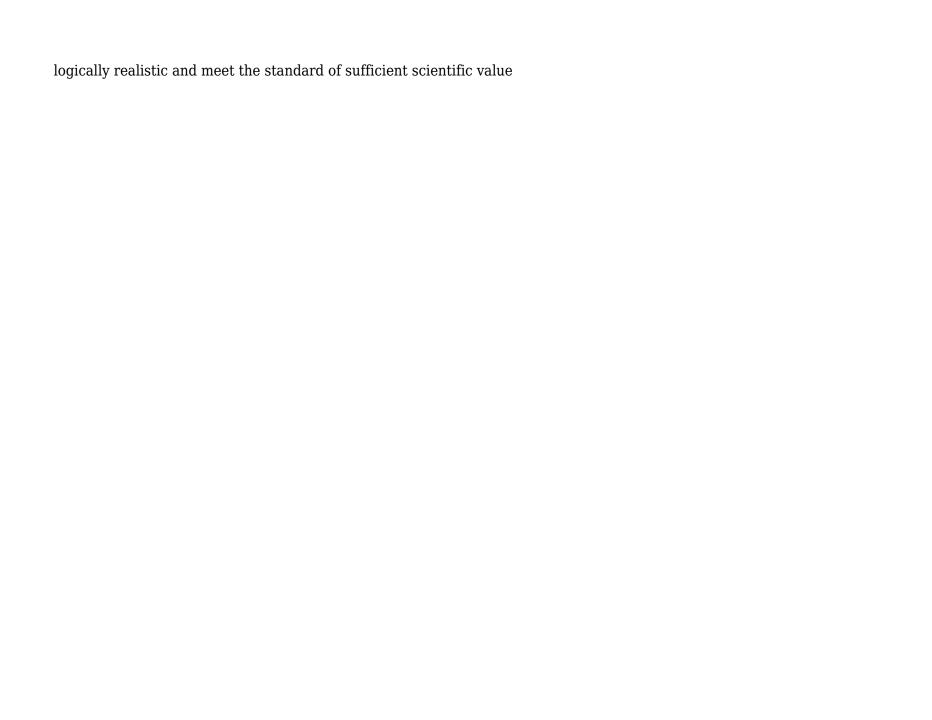
# **Standard Guide For Preparation Of Metallographic Specimens:**

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 Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) steel microstructures 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 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 Materials Testing and Instrumental Analysis for Plastics Processing Analytical Tools for Estimation of ParticulateComposite Material Properties Input and Output Characteristics Measurement Standards and Accuracy Tribology Measurements

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