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Designation: E 1447 - 09

Standard Test Method for Determination of Hydrogen in Titanium and Titanium Alloys by Inert Gas Fusion Thermal Conductivity/Infrared Detection Method1

This standard is issued under the fixed destruction E 1447, the neather intended by believing the designation indicates the year of original adaption or, in the case of revision, the pear of last revision. A marrier in parentheses indicates the pear of last reapproad, A requestrips epolism (a) indicates an collected change since the last revision or trapperval.

1.1 This test method applies to the determination of hydrogen in titanium and titanium alloys in concentrations from

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard

1.3 This standard does not purport to address all of the safety concerns, if are, associated with its use, It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicahility of regulatory limitations prior to use. For specific hazards, see Section 9.

2. Referenced Documents.

2.1 ASTM Standards

C 696 Test Methods for Chemical, Mass Spectrometric, and Spectrochemical Analysis of Nuclear-Grade Uranium Dioxide Powders and Pellets

E 50 Practices for Apparatus, Reagents, and Safety Considerations for Chemical Analysis of Metals, Ores, and Related Materials E 135 Terminology Relating to Analytical Chemistry for

Metals, Ores, and Related Materials E 1601 Practice for Conducting an Intertaboratory Study to Evaluate the Performance of an Analytical Method E 1914 Practice for Use of Terms Relating to the Develop-

3. Terminology

3.1 Definition:—For definitions of terms used in this test method, see Terminology E 135 and E 1914.

ment and Evaluation of Methods for Chemical Analysis

"This test method is under the parisdiction of ASTM Committee E05 on Analytical Chemistry for Metals, Ones, and Related Materials and in the direct responsibility of Subcommittee E01.06 on Ti, Zz, W. Mo, Tu, So, Ht. Re. Corner edition approved March 1, 2009. Published March 2009. Originally. approval in 1992; Lux partition addison appeared in 2008 at E 1447 \circ 18. For referenced ASTM standards, visit the ASTM survine, www.astm.org, or contact ASTM Castoner Service at service/Festimory, For Annual Book of ASTM Mondards voltane information, refer to the standard's Document Sommary page on the ANTM website.

4. Summary of Test Method

4.1 The specimen, contained in a small, single-use graphite crucible, is fused under a flowing carrier gas atmosphere. Hydrogen present in the sample is released as molecular hydrogen into the flowing gas stream. The hydrogen is separated from other liberated gases such as carbon monoxide and finally measured in a thermal conductivity cell.

4.2 Alternatively, hydrogen is converted to water by passing. the gas stream over heated copper exide and subsequently measuring in an appropriate infrared (IR) cell.

4.3 This test method is written for use with commercial analyzers equipped to perform the above operations automatically and is calibrated using reference materials of known

5. Significance and Use

5.1 This test method is intended to test for compliance with compositional specifications. It is assumed that all who use this test method will be trained analysts capable of performing common laboratory procedures skillfully and safely. It is expected that the work will be performed in a properly

6.1 The elements ordinarily present in titanium and its alloys do not interfere.

7.1 Fusion and Measurement Apparatus-Automatic bydrogen determinator, consisting of an electrode furnace or induction furnace; analytical gas stream impurity removal systems; auxiliary purification systems and either a thermal conductivity cell hydrogen measurement system or an infrared hydrogen measurement system (Note 1).

Nort 1-The apparatus and analysis system have been previously described in the Apparatus and Apparatus and Equipment sections of Test Methods C 696; Several models of commercial analyzers are available and presently in use in industry. Each has its own unique design characteristics and operational requirements. Comoli the instrument manufacturer's instructions for operational details.

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Designation: E1316 - 16

Standard Terminology for Nondestructive Examinations¹

This emoded is issued under the Exall designation ELDHs, the tember transcribetely following the designation indicates the year of original adoption is, in the case of revision, the year of lost revision. A mantho in parentheses indicates the year of last reappowed. A repensely) applica (a) indicates an editorial charge state the fast serious or suppress).

INDEX OF TERMS

1. Scope

100 ESSO/ELEDIO-10.

Common NOT Terms Acoustic Emission (AE) Tier

Electromagnetic Testing (ET) Terms Gamma- and X-Radiologic Testing (RT) Terms Lauk Teeting (LT) Terms Liquid Penetrant Testing (PT) Terms Magnetic Particle Testing (MT) Terms Neutron Radiologic Testing (MRT) Terms Ultrasunit: Testing (UT) Terms Inthured Tasting (IRT) Terms Horographic Testing (HT) Terms Visual Teeling (VT) Terms

1.1 This standard defines the terminology used in the standards prepared by the E07 Committee on Nondestructive Testing. These nondestructive testing (NDT) methods include: acoustic emission, electromagnetic testing, gamma- and X-radiology, leak testing, liquid penetrant testing, magnetic

particle testing, neutron radiology and gauging, ultrasonic testing, and other technical methods. 1.2 Committee E07 recognizes that the terms examination, testing and inspection are commonly used as synonyms in nondestructive testing. For uniformity and consistency in E07 nondestructive testing standards, Committee E07 encourages the use of the term examination and its derivatives when describing the application of nondestructive test methods.

* This terminology is under the parisdiction of Committee HIT on Similarizative Testing and is the direct responsibility of Subcommittee E07.92 on Editorial

There are, however, appropriate exceptions when the term test

Current addition approved fish. 1, 2016. Published Echroscy 2016. Originally approved at 1988. East previous edition approved in 2005 as \$1336-15s. DOI:

and its derivatives may be used to describe the application of a nondestructive test, such as measurements which produce a numeric result (for example, when using the leak testing method to perform a leak test on a component, or an ultrasonic measurement of velocity). Additionally, the term test should be used when referring to the NDT method, that is, Radiologic Testing (RT), Ultrasonic Testing (UT), and so forth. (Example: Radiologic Testing (RT) is often used to examine material to

1.3 Section A defines terms that are common to multiple NDT methods, whereas, the subsequent sections define terms pertaining to specific NDT methods.

detect internal discontinuities.)

1.4 As shown on the chart below, when nondestructive testing produces an indication, the indication is subject to interpretation as false, nonrelevant or relevant. If it has been interpreted as relevant, the necessary subsequent evaluation will result in the decision to accept or reject the material. With the exception of accept and reject, which retain the meaning. found in most dictionaries, all the words used in the chart are defined in Section A.

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Designation: E 1351 - 01

Standard Practice for Production and Evaluation of Field Metallographic Replicas¹

This standard is insued under the fixed designation E 1551; the number immediately following the designation indicates the year of original adoption or, in the case of syrision, the year of last syrision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (c) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

Replication is a nondestructive sampling procedure which records and preserves the topography of a metallographic specimen as a negative relief on a plastic film. The microstructural replica can be examined using a light microscope (LM) or scanning electron microscope (SEM) for subsequent analysis. Specimens examined in the SEM are vacuum coated with vaporized carbon or a suitable metal to provide contrast and conductivity. The convenience of the replication process makes it suitable for obtaining microstructures from field locations for subsequent examination and analysis in a laboratory. The proper preparation of the test surface and of the replica itself is of paramount importance and must receive careful attention. Because of the diversity of metallographic equipment available and the wide range of environments in which replication is conducted, the preparation of replicas of high quality should be viewed as a skilled process for which there exists a variety of techniques that achieve satisfactory results.

This practice presents some guidelines on the preparation of metallic surfaces and production of replicas and guidelines on evaluation of replica quality. It does not attempt to limit the variations in technique developed by skilled metallographers, each of which may produce acceptable replicas.

1. Scope

1.1 This practice covers recognized methods for the preparation and evaluation of cellulose acetate or plastic film replicas which have been obtained from metallographically prepared surfaces. It is designed for the evaluation of replicas to ensure that all significant features of a metallographically prepared surface have been duplicated and preserved on the replica with sufficient detail to permit both LM and SEM examination with optimum resolution and sensitivity.

1.2 This practice may be used as a controlling document in commercial situations. 1.3 The values stated in SI units are to be regarded as the standard. Inch-pound units given in parentheses are for infor-

1.4 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:

.7 This practice is under the jurisdiction of ASTM Committee E04 on Metallography and is the direct responsibility of Subcommittee E04.01 on Selection and Preparation of Samples. Current edition approved Dec. 10, 2001. Published January 2002. Originally published as E 1351 - 90. Last previous edition E 1351 - 96.

A 335/A 335M Specification for Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service² E 3 Guide for Preparation of Metallographic Specimens⁵ E 7 Terminology Relating to Metallography

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3. Terminology

3.1 Definitions-For definitions of terms used in this practice, refer to Terminology E 7.

E 407 Practice for Microetching Metals and Alloys³

4. Significance and Use

4.1 Replication is a nondestructive sampling procedure that records and preserves the topography of a metallographically prepared surface as a negative relief on a plastic film (replica). The replica permits the examination and analysis of the metallographically prepared surface on the LM or SEM.

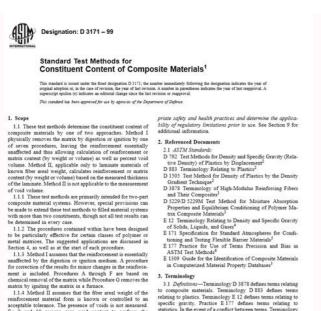
4.2 Enhancement procedures for improving replica contrast for microscopic examination are utilized and sometimes necessary (see 8.1). Now 1-It is recommended that the purchaser of a field replication

service specify that each replicator demonstrate proficiency by providing field prepared replica metallography and direct LM and SEM comparison to laboratory prepared samples of an identical material by grade and service exposure.

2 Annual Book of ASTM Standards, Vol 01.01. * Annual Birok of ASTM Standards, Vol 03.01.

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ASTM E1627-13 User Questionnaine As part of this study, which of the following are you providing? Previous environmental site assessment reports ()Yes ()No. Environmental compliance austi reports. Otres. ONo. Environmental pointits (including but not limited to solid waste disposal permits, hazardous waste) dispesal permits, wastewater permits, NPOES permits, underground injection permits() Yes() No Registrations for underground and aboveground storage tests. () Yes. () No. Registrations for underground injection systems () Yes () No. 6. Maserial safety data sheets () Yes. () No. T. Community Right-to-Know plan () Yes () No. 6. Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc. ()Yes (No. Repets regarding hydragoslagic conditions on the property or surrounding area. Yes. No. Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or residing to environmental liens encumbering the property () Firs () No. 11. Hazardous weeks generator nations or reports. (1) Yes. (1) No. 12. Geotechnical studies () Yes ()No 13. Risk assessments () Yes () No. 14. Recorded Activity and Use Limitations (AULs). ()Yes ()No. Plasse contact us if you have any quastions regarding those ASTM requirements. Please return the completed document to Environmental Services Company, Inc. via fax. at 801-221-1341 or email to debracelles slabs, som-Cornalated by: Signature. Company. Relationship to site O.e. render, purchaser.evme Owier.

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