



Standard Test Method for Measuring Humidity with a Psychrometer (the Measurement of Wet- and Dry-Bulb Temperatures)¹

This standard is issued under the fixed designation E 337; 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.

^a Note—Section 20 was added editorially in April 1996.

1. Scope

1.1 General:

1.1.1 This test method covers the determination of the humidity of atmospheric air by means of wet- and dry-bulb temperature readings.

1.1.2 This test method is applicable for meteorological measurements at the earth's surface, for the purpose of the testing of materials, and for the determination of the relative humidity of most standard atmospheres and test atmospheres.

1.1.3 This test method is also applicable when the temperature of the wet bulb only is required. In this case, the instrument comprises a wet-bulb thermometer only.

1.1.4 Relative humidity (rh) does not denote a unit. Uncertainties in the relative humidity are expressed in the form $U \pm u$ % rh, which means that the relative humidity is expected to lie in the range $(U - u)$ % to $(U + u)$ %, where U is the observed relative humidity. All uncertainties are at the 95 % confidence level.

1.2 Method A—Psychrometer Ventilated by Aspiration:

1.2.1 This method incorporates the psychrometer ventilated by aspiration. The aspirated psychrometer is more accurate than the sling (whirling) psychrometer (see Method B), and it offers advantages in regard to the space which it requires, the possibility of using alternative types of thermometers (for example, electrical), easier shielding of thermometer bulbs from extraneous radiation, accidental breakage, and convenience.

1.2.2 This method is applicable within the ambient temperature range 5 to 80°C, wet-bulb temperatures not lower than 1°C, and restricted to ambient pressures not differing from standard atmospheric pressure by more than 30 %.

1.3 Method B—Psychrometer Ventilated by Whirling (Sling Psychrometer):

1.3.1 This method incorporates the psychrometer ventilated by whirling (sling psychrometer).

1.3.2 This method is applicable within the ambient temperature range 5 to 50°C, wet-bulb temperatures not lower than 1°C and restricted to ambient pressures not differing from standard atmospheric pressure by more than 30 %.

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.* (For more specific safety precautionary statements, see 8.1 and 15.1.)

2. Referenced Documents

2.1 ASTM Standards:

- D 861 Practice for Use of the Tex System to Designate Linear Density of Fibers, Yarn Intermediates, and Yarns²
- D 1193 Specification for Reagent Water³
- D 1356 Terminology Relating to Sampling and Analysis of Atmospheres⁴
- D 1357 Practice for Planning the Sampling of the Ambient Atmosphere⁴
- D 3631 Test Methods for Measuring Surface Atmospheric Pressure⁴
- D 4023 Terminology Relating to Humidity Measurements⁴
- D 4230 Test Method of Measuring Humidity with Cooled-Surface Condensation (Dew-Point) Hygrometer⁴
- E 1 Specification for ASTM Thermometers⁵
- E 380 Practice for Use of the International System of Units (SI) (the Modernized Metric System)⁶

3. Terminology

3.1 Definitions:

3.1.1 For definitions of humidity terms used in this test method, refer to Terminology D 4023.

3.1.2 For definitions of other terms in this test method, refer to Terminology D 1356.

3.2 Definitions of Terms Specific to This Standard:

¹ Annual Book of ASTM Standards, Vol 07.01.

² Annual Book of ASTM Standards, Vol 11.01.

³ Annual Book of ASTM Standards, Vol 11.05.

⁴ Annual Book of ASTM Standards, Vol 14.05.

⁵ Annual Book of ASTM Standards, Vol 14.02. (Excerpts in all other volumes.)

⁶ This test method is under the jurisdiction of ASTM Committee D-22 on Sampling and Analysis of Atmospheres and is the direct responsibility of Subcommittee D22.11 on Meteorology.

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Astm E 337

Edward H. Smith

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Astm E 337:

Handbook for Concrete and Cement United States. Army. Corps of Engineers,1994 *USAF Damage Tolerant Design Handbook* ,1984 Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects United States. Federal Highway Administration,1985 **Irradiation Embrittlement of Reactor Pressure Vessels (RPVs) in Nuclear Power Plants** Naoki Soneda,2014-09-01 Reactor Pressure Vessels RPVs contain the fuel and therefore the reaction at the heart of nuclear power plants They are a life determining structural component if they suffer serious damage the continued operation of the plant is in jeopardy This book critically reviews irradiation embrittlement the main degradation mechanism affecting RPV steels and mitigation routes for managing the RPV lifetime Part I reviews RPV design and fabrication in different countries with an emphasis on the materials required their important properties and manufacturing technologies Part II then considers RVP embrittlement in operational nuclear power plants using different reactors Chapters are devoted to embrittlement in light water reactors including WWER type reactors and Magnox reactors Finally Part III presents techniques for studying embrittlement including irradiation simulation techniques microstructural characterisation techniques and probabilistic fracture mechanics Irradiation Embrittlement of Reactor Pressure Vessels RPVs in Nuclear Power Plants provides a thorough review of an issue that is central to the safety of nuclear power generation The book includes contributions from an international team of experts and will be a useful resource for nuclear plant operators and managers relevant regulatory and safety bodies nuclear metallurgists and other academics in this field Discusses reactor pressure vessel RPV design and the effect irradiation embrittlement can have the main degradation mechanism affecting RPVs Examines embrittlement processes in RPVs in different reactor types as well as techniques for studying RPV embrittlement Wellington Sears Handbook of Industrial Textiles Sabit Adanur,2017-11-22 The Wellington Sears Handbook of Industrial Textiles has been a widely used textile industry reference for more than 50 years Now a completely updated new edition has been published It was prepared by a team of industrial textile specialists at Auburn University to provide both technical and management personnel with a comprehensive resource on the current technology and applications of today s industrial textiles All aspects of industrial textiles are covered man made and natural materials manufacturing and finishing methods and all applications There are also sections on properties testing waste management computers and automation and standards and regulations The appendices provide extensive reference data properties specifications manufacturers and trade names mathematical equations and measurement units The text is organized for easy reference and well illustrated with hundreds of schematics and photographs **Developments In Fracture Mechanics Test Methods Standardization** William F. Brown,1977 **Characterization and Failure Analysis of Plastics** ASM International,Steve Lampman,2003-01-01 The selection and application of engineered materials is an integrated process that requires an understanding of the interaction between materials properties manufacturing characteristics design

considerations and the total life cycle of the product This reference book on engineering plastics provides practical and comprehensive coverage on how the performance of plastics is characterized during design property testing and failure analysis The fundamental structure and properties of plastics are reviewed for general reference and detailed articles describe the important design factors properties and failure mechanisms of plastics The effects of composition processing and structure are detailed in articles on the physical chemical thermal and mechanical properties Other articles cover failure mechanisms such as crazing and fracture impact loading fatigue failure wear failures moisture related failure organic chemical related failure photolytic degradation and microbial degradation Characterization of plastics in failure analysis is described with additional articles on analysis of structure surface analysis and fractography

Mitigation Techniques for In-service Structures with Premature Concrete Deterioration Jeremy T. Klahorst, R. E. Klingner, Michael Eugene Kreger, 2005 *Mitigation Techniques for In-service Structures with Premature Concrete Deterioration*, 2005 Effects of Vertical Dynamic Loading on Corrugated Fiberboard Containers W. D. Godshall, 1968 Mechanics and Mechanisms of Fracture Alan F. Liu, 2005-01-01 **NASA Thesaurus**, 1994 *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

Fundamentals of Electrochemical Corrosion Ele Eugene Stansbury, Robert Angus Buchanan, 2000-01-01 Covering the essential aspects of the corrosion behavior of metals in aqueous environments this book is designed with the flexibility needed for use in courses for upper level undergraduate and graduate students for concentrated courses in industry for individual study and as a reference book *Federal Register*, 2003-12

Testing of Polymers John V. Schmitz, 1965 *U.S.D.A. Forest Service Research Paper FPL.*, 1968 **Metallic Materials Specification Handbook** R.B. Ross, 2013-11-27 *Mechanical Engineer's Reference Book* Edward H. Smith, 2013-09-24 Mechanical Engineer's Reference Book 12th Edition is a 19 chapter text that covers the basic principles of mechanical engineering The first chapters discuss the principles of mechanical engineering electrical and electronics microprocessors instrumentation and control The succeeding chapters deal with the applications of computers and computer integrated engineering systems the design standards and materials properties and selection Considerable chapters are devoted to other basic knowledge in mechanical engineering including solid mechanics tribology power units and transmission fuels and combustion and alternative energy sources The remaining chapters explore other engineering fields

related to mechanical engineering including nuclear offshore and plant engineering These chapters also cover the topics of manufacturing methods engineering mathematics health and safety and units of measurements This book will be of great value to mechanical engineers *Asphalts and Allied Substances: Methods of testing: Fabricated bituminous products*
Herbert Abraham, 1963

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