



Standard Practice for Pressure Decay Leak Test Method¹

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1. Scope

1.1 This practice describes a method for determining the leakage rate of a vessel subject to a positive pressure difference. The technique is based upon evaluation of the change of mass within the test object based on a pressure decay measurement. The pressure decay measurement uses the ideal gas equation of state and the measured pressures, temperatures, and time to determine the mass loss from the vessel. This method does not apply to deformable vessels.

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.

2. Referenced Documents

2.1 ASTM Standards²

E474 Guide for Preparation of a Leak Testing Specification
E543 Specification for Agencies Performing Nondestructive Testing
E1316 Terminology for Nondestructive Examinations

2.2 ANS/ASNT Standards³

ANS/ASNT-CP-189 Standard for Qualification and Certification of Nondestructive Testing Personnel
SNT-TC-1A Recommended Practice for Nondestructive Testing Personnel Qualification and Certification

2.3 AIA Document⁴

NAS-410 Certification and Qualification of Nondestructive Testing Personnel

2.4 ASME Standards⁵

ASME Boiler and Pressure Vessel Code Section V Article 10 (paragraph T-1044)

2.5 ISO Standards⁶

ISO/IEC Guide 98-3 Uncertainty of Measurement — Part 3

3. Terminology

3.1 Definitions

3.1.1 *pressure decay test resolution*—the resolution of the test that can be derived from the test equipment specifications and the volume of the test vessel. The test resolution is determined by evaluation of the individual resolutions of the pressure measurement, temperature measurement, and time measurement for a known vessel volume. The method for determining the test resolution is given in *Annex A1*.

3.1.2 *pressure decay test accuracy*—the test accuracy is the estimated accuracy of the test based on a combination of the measurement accuracies of contributing variables. The method for determining the test accuracy is given in *Annex A2*.

4. Summary of Test Method

4.1 This practice requires a known volume and the use of the pressure rate of decay technique for quantitative measurement of leakage rates. The practice is written to be usable over a wide range of pressures and system volumes. This method is only applicable to the test of non-deformable volumes or devices. Test devices which may have significant changes in volume due to pressurization should not be tested with this method. The method requires the measurement of the system pressure and temperature as a function of time and as such requires that these measurements be made with calibrated instrumentation. The range of the measurement technique can vary significantly but is generally applicable in the range greater than 1×10^{-6} mol/s (2.2×10^{-6} std cc/s).

5. Significance and Use

5.1 The equipment, test duration, and technique should be determined before commencement of the test based on the

¹ This practice is under the jurisdiction of ASTM Committee E37 on Nondestructive Testing and is the direct responsibility of Subcommittee E37.06 on Leak Testing Method.

² Current edition approved June 1, 2013. Published June 2013. DOI: 10.1520/E2930-13.

³ 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.

⁴ Available from American Society for Nondestructive Testing (ASNT), P.O. Box 28188, 1711 Arlington Ave., Columbus, OH 43228-0188, <http://www.asnt.org>.

⁵ Available from American National Standards Association of America, Inc. (ANSI), 1190 Wilson Blvd., Suite 1700, Arlington, VA 22209-3928, <http://www.ansi-standards.org>.

⁶ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5959, <http://www.asme.org>.

⁷ Available from American National Standards Institute (ANSI), 25 W. 42nd St., 4th Floor, New York, NY 10018, <http://www.ansi.org>.

Astm E2930 13

**American Society for Testing and
Materials. ASTM committee D-13 on
textile materials**

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Heat Exchangers Kuppan Thulukkanam, 2024-02-29 Heat Exchangers Mechanical Design Materials Selection Nondestructive Testing and Manufacturing Methods Third Edition covers mechanical design of pressure vessels and shell and tube heat exchangers including bolted flange joint design as well as selection of a wide spectrum of materials for heat exchanger construction their physical properties corrosion behavior and fabrication methods like welding Discussing the basics of quality control the book includes ISO Standards for QMS and references modern quality concepts such as Kaizen TPM and TQM It presents Six Sigma and Lean tools for heat exchangers manufacturing industries The book explores heat exchanger manufacturing methods such as fabrication of shell and tube heat exchangers and brazing and soldering of compact heat exchangers The book serves as a useful reference for researchers graduate students and engineers in the field of heat exchanger design including pressure vessel manufacturers ASTM Standards on Textile Materials American Society for Testing and Materials. ASTM committee D-13 on textile materials, 1963 *ASTM Standards on Textile Materials* American Society for Testing Materials. ASTM Committee D-13 on textile materials, 1960 ASTM Standards on Textile Materials ASTM Committee D-13 on Textile Materials, 1954 ASTM Standards on Textile Materials American Society for Testing Materials. ASTM Committee D-13 On textile materials, 1940 **ASTM Standards on Textile Materials** ASTM Committee D-13 on textile materials, 1954 **ASTM Standards on Textile Materials (with Related Information) Specifications, Tolerances, Methods of Testing, Definition and Terms** American Society for Testing Materials. Committee D-13 on Textile Materials, 1961 *ASTM Standards* ASTM International, ASTM International Staff, 2010-01-01 **ASTM Standards Part 13**, 1979

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