



# Standard Test Methods for Electrical Conductivity and Resistivity of Water<sup>1</sup>

This standard is issued under the fixed designation D1125; 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 approval. A superscript epsilon ( $\epsilon$ ) 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 These test methods cover the determination of the electrical conductivity and resistivity of water. The following test methods are included:

Test Method A—Field and Routine Laboratory Measurement of Static (Non-Flowing) Samples	Range 10 to 200 000 $\mu\text{S/cm}$	Sections 12 to 18
Test Method B—Continuous In-Line Measure-ment	8 to 200 000 $\mu\text{S/cm}$	19 to 22

1.2 These test methods have been tested in reagent water. It is the user's responsibility to ensure the validity of these test methods for waters of untested matrices.

1.3 For measurements below the range of these test methods, refer to Test Method D5391.

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

1.5 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<sup>2</sup>

- D1066 Practice for Sampling Steam
- D1129 Terminology Relating to Water
- D1192 Guide for Equipment for Sampling Water and Steam in Closed Conduits (Withdrawn 2003)

<sup>1</sup> These test methods are under the jurisdiction of Committee D19 on Water and are the direct responsibility of Subcommittee D19.02 on Sampling Water and Related Fluids. Analysis of Water for Process Control and Process Use, On-Line Water Analysis, and Treatment of Water.

Current edition approved Feb. 1, 2014. Published March 2014. Originally approved in 1970. Last previous edition approved in 2009 as D1125 – 09 (2009b). DOI: 10.1520/D1125-14.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The last approved version of this Technical standard is referenced on [www.astm.org](http://www.astm.org).

D1193 Specification for Reagent Water

D1866 Test Methods for Deposit-Forming Impurities in Steam

D2777 Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D19 on Water

D3370 Practices for Sampling Water from Closed Conduits

D4519 Test Method for On-Line Determination of Ammonia and Carbon Dioxide in High Purity Water by Cation Exchange and Degassed Cation Conductivity

D5391 Test Method for Electrical Conductivity and Resistivity of a Flowing High Purity Water Sample

E2254 Specification for Liquid-in-Glass ASTM Thermometers with Low-Hazard Precision Liquids

## 3. Terminology

### 3.1 Definitions:

3.1.1 **electrical conductivity**,  $\kappa$ —the reciprocal of the a-c resistance in ohms measured between opposite faces of a centimetre cube of an aqueous solution at a specified temperature.

3.1.1.1 **Discussion**—The unit of electrical conductivity is siemens per centimetre. (The previously used unit of mhos/cm are numerically equivalent to S/cm.) The actual resistance of the cell,  $R_{\kappa}$ , is measured in ohms. The conductance,  $1/R_{\kappa}$ , is directly proportional to the cross-sectional area,  $A$  (in  $\text{cm}^2$ ), and inversely proportional to the length of the path,  $l$  (in cm):

$$1/R_{\kappa} = \kappa A/l$$

The conductance measured between opposing faces of a centimetre cube,  $K$ , is called conductivity. Conductivity values are usually expressed in microsiemens/centimetre or in siemens/centimetre at a specified temperature, normally 25°C.

3.1.2 **electrical resistivity**,  $\rho$ —the a-c resistance in ohms measured between opposite faces of a centimetre cube of an aqueous solution at a specified temperature.

3.1.2.1 **Discussion**—The unit of electrical resistivity is ohm-centimetre. The actual resistance of the cell,  $R_{\rho}$ , is measured in ohms, and is directly proportional to the length of the path,  $l$  (in cm), and inversely proportional to the cross-sectional area,  $A$  (in  $\text{cm}^2$ ):

$$R_{\rho} = \rho l/A$$

The resistance measured between opposite faces of a centimetre cube,  $R$ , is called resistivity. Resistivity values are

# Astm D1125 Guidelines

**ML Yell**



## **Astm D1125 Guidelines:**

*Techniques for Corrosion Monitoring* Lietai Yang, 2020-12-01 *Techniques for Corrosion Monitoring* Second Edition reviews electrochemical techniques for corrosion monitoring such as polarization techniques potentiometric methods electrochemical noise and harmonic analyses galvanic sensors differential flow through cells and multielectrode systems Other sections analyze the physical or chemical methods of corrosion monitoring including gravimetric radioactive tracer hydrogen permeation electrical resistance and rotating cage techniques and examine corrosion monitoring in special environments such as microbial systems concrete and soil and remote monitoring and model predictions A final group of chapters case studies covering ways in which corrosion monitoring can be applied to engine exhaust systems cooling water systems and more With its distinguished editor and international team of contributors this book is a valuable reference guide for engineers and scientific and technical personnel who deal with corrosion in such areas as automotive engineering power generation water suppliers and the petrochemical industry Provides an in depth presentation of what current corrosion monitoring techniques are available Presents insights into how to choose the best technique s for specific corrosion monitoring needs Includes case studies that highlight the main issues Serves as a valuable reference guide for engineers and scientific and technical personnel who deal with corrosion

ASTM Standards on Biological Effects and Environmental Fate, 1999 Features 98 standards 30 new to this edition that will help determine the effects of physical and chemical stress on aquatic and terrestrial plants and animals including humans and the fate distribution and persistence of materials when introduced into the environment Features ASTM test methods practices and guides on aquatic biocriteria aquatic toxicity testing water and sediment chemical fate terrestrial field sampling and toxicity testing and physiological cellular subcellular

**Annual Book of ASTM Standards** American Society for Testing and Materials, 1989 **Practical Guidelines for Corrosion Protection in the Mining and Metallurgical Industry** Robert H. C. Andrew, 1997 An outline of problems associated with corrosion in mining and metallurgy and practical guidelines to avoid or control the phenomena The volume emphasizes mining situations faced by operators and owners who must make decisions quickly and without the benefit of long term trials covering the basic Annual Book of ASTM Standards ASTM International, American Society for Testing and Materials, 2004 ASTM Standards on Environmental Sampling American Society for Testing Materials, 1997 A complete reference of American Society for Testing and Materials standards on environmental sampling covering standards for sampling soil water particulate matter and vapors in workplaces wells laboratories and natural areas with guides for safe practices in areas such as construction chemical testing groundwater monitoring and air monitoring at waste management facilities Annotation copyright by Book News Inc Portland OR **Index of U.S. Nuclear Standards** William J. Slattery, 1977 Treatise on Water Science, 2010-09-01 Water quality and management are of great significance globally as the demand for clean potable water far exceeds the availability Water science research brings together the natural and

applied sciences engineering chemistry law and policy and economics and the Treatise on Water Science seeks to unite these areas through contributions from a global team of author experts The 4 volume set examines topics in depth with an emphasis on innovative research and technologies for those working in applied areas Published in partnership with and endorsed by the International Water Association IWA demonstrating the authority of the content Editor in Chief Peter Wilderer a Stockholm Water Prize recipient has assembled a world class team of volume editors and contributing authors Topics related to water resource management water quality and supply and handling of wastewater are treated in depth

Corrosion Control in the Oil and Gas Industry Sankara Papavinasam,2013-10-15 The effect of corrosion in the oil industry leads to the failure of parts This failure results in shutting down the plant to clean the facility The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at 27 billion According to NACE International leading some to estimate the global annual cost to the oil and gas industry as exceeding 60 billion In addition corrosion commonly causes serious environmental problems such as spills and releases An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure Corrosion Control in the Oil and Gas Industry provides engineers and designers with the tools and methods to design and implement comprehensive corrosion management programs for oil and gas infrastructures The book addresses all segments of the industry including production transmission storage refining and distribution Selects cost effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1 000 industry best practices and international standards

**Selected ASTM General Use Standards on Water** ,1988      **Handbook of Corrosion Engineering 2/E** Pierre R. Roberge,2012-01-26 THE MOST COMPLETE UP TO DATE CORROSION CONTROL REFERENCE Fully revised throughout Handbook of Corrosion Engineering Second Edition discusses the latest advances in corrosion resistant materials methods and protective coatings This comprehensive resource covers all aspects of corrosion damage including detection monitoring prevention and control Written by a world renowned expert on the subject the book helps you to select materials and resolve design issues where corrosion is considered a factor Understand predict evaluate mitigate and correct corrosion problems with help from this authoritative guide Coverage includes Aqueous corrosion High temperature corrosion Atmospheric water seawater soil concrete and microbial environments Modeling life prediction and computer applications Identifying and inspecting corrosion failures Corrosion maintenance through inspection and monitoring Corrosion testing Selection and design of engineering materials Protective coatings and corrosion inhibitors Cathodic and anodic protection      *Practical Guide to Feed, Forage and Water Analysis* Kee Hong Nahm,1992      **NBS Special Publication** ,1977      *Index and Directory of U.S. Industry Standards* ,1987      **Industrial Water Engineering** ,1978      Book of ASTM Standards Including Tentatives American Society for Testing Materials,1958      **Bulletin - Association of Engineering Geologists** Association

of Engineering Geologists,1988      **Power Boiler Design, Inspection, and Repair** Mohammad A. Malek,2005-01-17 The ASME American Society of Mechanical Engineers Boiler codes are known throughout the world for their emphasis on safety and reliability Written by an expert with practical experience in boiler inspection and maintenance this book offers a clear straightforward interpretation of the codes Contents Types of Classification of Power Boilers Design Criteria Formulas Calculations Construction Materials and Methods Safety Valves Stamping of Code Symbols and Nameplates Data Reports Methods for Repair and Alteration      *1955 Book of ASTM Standards Including Tentatives (a Triennial Publication).* American Society for Testing and Materials,1955      **Semiconductor Manufacturing Handbook 2E (PB)** Hwaiyu Geng,2017-10-06 Thoroughly Revised State of the Art Semiconductor Design Manufacturing and Operations Information Written by 70 international experts and reviewed by a seasoned technical advisory board this fully updated resource clearly explains the cutting edge processes used in the design and fabrication of IC chips MEMS sensors and other electronic devices Semiconductor Manufacturing Handbook Second Edition covers the emerging technologies that enable the Internet of Things the Industrial Internet of Things data analytics artificial intelligence augmented reality and and smart manufacturing You will get complete details on semiconductor fundamentals front and back end processes nanotechnology photovoltaics gases and chemicals fab yield and operations and facilities Nanotechnology and microsystems manufacturing FinFET and nanoscale silicide formation Physical design for high performance low power 3D circuits Epitaxi anneals RTP and oxidation Microlithography etching and ion implantations Physical chemical electrochemical and atomic layer vapor deposition Chemical mechanical planarization Atomic force metrology Packaging bonding and interconnects Flexible hybrid electronics Flat panel flexible display electronics and photovoltaics Gas distribution systems Ultrapure water and filtration Process chemicals handling and abatement Chemical and slurry handling systems Yield management CIM and factory automation Manufacturing execution systems Advanced process control Airborne molecular contamination ESD controls in clean room environments Vacuum systems and RF plasma systems IC manufacturing parts cleaning technology Vibration and noise design And much more

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