



Standard Test Methods for Electrical Conductivity and Resistivity of Water¹

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 (ϵ) 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 μ S/cm	Sections 12 to 18
Test Method B—Continuous In-Line Measure-ment	8 to 200 000 μ 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 Standards²

- D1166 Practice for Sampling Steam
- D1129 Terminology Relating to Water
- D1192 Guide for Equipment for Sampling Water and Steam in Closed Conduits (Withdrawn 2003)

¹ 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.

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² 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.

³ The last approved version of this Technical standard is referenced on www.astm.org.

D1193 Specification for Reagent Water

D2186 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*, κ —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 units of mhos/cm are numerically equivalent to S/cm.) The actual resistance of the cell, R_{κ} , is measured in ohms. The conductance, $1/R_{\kappa}$, is directly proportional to the cross-sectional area, A (in cm²), 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*, ρ —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_{ρ} , 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 cm²):

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

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

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L Darling-Hammond



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ASTM D1125-95(2009) American Society for Testing and Materials, 2009 **Index of Specifications and Standards**, 2005 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 *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 **Laboratory Tests for Unsaturated Soils** Eng-Choon Leong, Martin Wijaya, 2023-02-16 The testing of unsaturated soils requires greater care and effort than that of saturated soils Although unsaturated soil mechanics has been embraced by geotechnical engineering engineering practice has not yet caught up as the characterization of unsaturated soils is difficult and time consuming and made harder still by a lack of standards *Laboratory Tests for Unsaturated Soils* collates test procedures to cover all

laboratory tests for characterising unsaturated soils It covers the background theory test procedures and interpretation of test results Each test procedure is broken down into simple stages and described in detail The pitfalls of each test and the interpretation of the test results are explained Test data and calculation methods are given along with many numerical examples to illustrate the methods of interpretation and to offer the presentation of typical results The book is especially useful for students and researchers who are new to the field and provides a practical handbook for engineering applications

SAE International's Dictionary of Electric and Hybrid Vehicles Jon M. Quigley, Fred Starkey, 2024-12-04 Welcome to SAE International's Dictionary of Electric and Hybrid Vehicles the ultimate reference for mastering the complex and fast evolving world of electric and hybrid vehicle technologies Designed for engineers researchers students and enthusiasts this comprehensive guide is your key to navigating the intricate vocabulary and concepts driving the future of sustainable transportation As the automotive industry pivots toward greener more efficient solutions understanding the terminology and technology behind electric and hybrid vehicles is crucial This dictionary offers precise accessible definitions for a wide range of terms from foundational principles to the latest innovations in battery technology motor design and smart charging systems Each entry has been meticulously curated by experts to ensure accuracy and relevance providing clear explanations that enhance both comprehension and application Reflecting the most recent advancements in automotive engineering electrical and mechanical engineering chemistry and environmental science this resource stands as a testament to collaborative expertise Whether you're a seasoned professional seeking to update your knowledge or a student embarking on new projects this dictionary will support your journey with reliable up to date information Embark on your exploration of the dynamic realm of electric and hybrid vehicles with confidence and clarity Your gateway to the future of automotive technology starts here ISBN 9781468608526 ISBN 9781468608533 ISBN 9781468608540 DOI <https://doi.org/10.4271/9781468608533>

Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III September 2005 , Title 40 Protection of Environment Parts 136 to 149 (Revised as of July 1, 2013) Office of The Federal Register, Enhanced by IntraWEB, LLC, 2014-07-01 40 CFR Protection of Environment

Analysis and Analyzers Béla G. Lipták, Kriszta Venczel, 2016-11-25 The Instrument and Automation Engineers Handbook IAEH is the 1 process automation handbook in the world Volume two of the Fifth Edition Analysis and Analyzers describes the measurement of such analytical properties as composition Analysis and Analyzers is an invaluable resource that describes the availability features capabilities and selection of analyzers used for determining the quality and compositions of liquid gas and solid products in many processing industries It is the first time that a separate volume is devoted to analyzers in the IAEH This is because by converting the handbook into an international one the coverage of analyzers has almost doubled since the last edition Analysis and Analyzers Discusses the advantages and disadvantages of various process analyzer designs Offers application and method specific guidance for choosing the best analyzer Provides tables of analyzer capabilities and

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