



Designation: D5681 – 23

Standard Terminology for Waste and Waste Management¹

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1. Scope

1.1 This terminology contains standard definitions of terms used in the general area of waste and waste management. It is intended to promote understanding by providing precise technical definitions of terms used in the standards developed by Committee D34 and its subcommittees.

1.2 Terms used only within an individual standard, and having a meaning unique to that standard, may be defined or explained in the terminology section of that individual standard.

1.3 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

D1129 Terminology Relating to Water

D4439 Terminology for Geosynthetics

D4448 Guide for Sampling Ground-Water Monitoring Wells

D4646 Test Method for 24-h Batch-Type Measurement of Contaminant Sorption by Soils and Sediments

D4790 Terminology of Aromatic Hydrocarbons and Related Chemicals

D4874 Test Method for Leaching Solid Material in a Col-

umn Apparatus (Withdrawn 2021)³

D5120 Test Method for Inhibition of Respiration in Microbial Cultures in the Activated Sludge Process (Withdrawn 2014)³

D5231 Test Method for Determination of the Composition of Unprocessed Municipal Solid Waste

D5285 Test Method for 24-Hour Batch-Type Measurement of Volatile Organic Sorption by Soils and Sediments (Withdrawn 2008)³

D5368 Test Methods for Gravimetric Determination of Total Solvent Extractable Content (TSEC) of Solid Waste Samples (Withdrawn 2014)³

D5369 Practice for Extraction of Solid Waste Samples for Chemical Analysis Using Soxhlet Extraction (Withdrawn 2016)³

D5468 Test Method for Gross Calorific and Ash Value of Waste Materials (Withdrawn 2016)³

D5660 Test Method for Assessing the Microbial Detoxification of Chemically Contaminated Water and Soil Using a Toxicity Test with a Luminescent Marine Bacterium (Withdrawn 2014)³

D5679 Practice for Sampling Consolidated Solids in Drums or Similar Containers

D5680 Practice for Sampling Unconsolidated Solids in Drums or Similar Containers

D5743 Practice for Sampling Single or Multilayered Liquids, with or Without Solids, in Drums or Similar Containers

D5744 Test Method for Laboratory Weathering of Solid Materials Using a Humidity Cell

D5745 Guide for Developing and Implementing Interim and Early Actions for Waste Contamination Site Remediation

D5746 Classification of Environmental Condition of Property Area Types, Including Explosives Safety for Federally-Owned Real Property

D5759 Guide for Characterization of Coal Fly Ash and Clean Coal Combustion Fly Ash for Potential Uses

D5792 Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives

¹ This terminology is under the jurisdiction of ASTM Committee D34 on Waste Management and is the direct responsibility of Subcommittee D34.94 on Terminology.

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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 historical standard is referenced on www.astm.org.

- D5956** Guide for Sampling Strategies for Heterogeneous Wastes
- D6008** Practice for Determining the Environmental Condition of Federal Property
- D6044** Guide for Representative Sampling for Management of Waste and Contaminated Media
- D6051** Guide for Composite Sampling and Field Subsampling for Environmental Waste Management Activities
- D6063** Guide for Sampling of Drums and Similar Containers by Field Personnel
- D6250** Practice for Derivation of Decision Point and Confidence Limit for Statistical Testing of Mean Concentration in Waste Management Decisions (Withdrawn 2018)³
- D6270** Practice for Use of Scrap Tires in Civil Engineering Applications
- D6311** Guide for Generation of Environmental Data Related to Waste Management Activities: Selection and Optimization of Sampling Design
- D6323** Guide for Laboratory Subsampling of Media Related to Waste Management Activities
- D6346** Guide for Accepting, Segregating, and Packaging Materials Collected Through Household Hazardous Waste Programs
- D6538** Guide for Sampling Wastewater With Automatic Samplers
- D6582** Guide for Ranked Set Sampling: Efficient Estimation of a Mean Concentration in Environmental Sampling (Withdrawn 2012)³
- D6661** Practice for Field Collection of Organic Compounds from Surfaces Using Wipe Sampling
- D6700** Guide for Use of Scrap Tires as Tire-Derived Fuel
- D6759** Practice for Sampling Liquids Using Grab and Discrete Depth Samplers
- D6842** Guide for Designing Cost-Effective Sampling and Measurement Plans by Use of Estimated Uncertainty and Its Components in Waste Management Decision-Making (Withdrawn 2015)³
- D6956** Guide for Demonstrating and Assessing Whether a Chemical Analytical Measurement System Provides Analytical Results Consistent with Their Intended Use
- D6982** Practice for Detecting Hot Spots Using Point-Net (Grid) Search Patterns
- E135** Terminology Relating to Analytical Chemistry for Metals, Ores, and Related Materials
- E177** Practice for Use of the Terms Precision and Bias in ASTM Test Methods
- E456** Terminology Relating to Quality and Statistics
- E702** Specification for Municipal Ferrous Scrap
- E708** Specification for Waste Glass as a Raw Material for the Manufacture of Glass Containers
- E711** Test Method for Gross Calorific Value of Refuse-Derived Fuel by the Bomb Calorimeter
- E828** Test Method for Designating the Size of RDF-3 From its Sieve Analysis (Withdrawn 2009)³
- E850** Guide for Characterization of Inorganic Process Wastes for Use as Structural Fill (Withdrawn 2019)³
- E868** Test Methods for Conducting Performance Tests on Mechanical Conveying Equipment Used in Resource Recovery Systems (Withdrawn 2013)³
- E884** Practice for Sampling Airborne Microorganisms at Municipal Solid-Waste Processing Facilities (Withdrawn 2021)³
- E889** Test Method for Composition or Purity of a Solid Waste Materials Stream
- E897** Test Method for Volatile Matter in the Analysis Sample of Refuse-Derived Fuel (Withdrawn 2011)³
- E929** Test Method for Measuring Electrical Energy Requirements of Processing Equipment (Withdrawn 2014)³
- E943** Terminology Relating to Biological Effects and Environmental Fate
- E949** Test Method for Total Moisture in a Refuse-Derived Fuel Laboratory Sample (Withdrawn 2011)³
- E953/E953M** Practice for Fusibility of Refuse-Derived Fuel (RDF) Ash
- E955** Test Method for Thermal Characteristics of Refuse-Derived Fuel Macrosamples (Withdrawn 2017)³
- E959** Test Method for Characterizing the Performance of Refuse Size-Reduction Equipment
- E1138** Terminology for Technical Aspects of Products Liability Litigation (Withdrawn 1995)³
- E1248** Practice for Shredder Explosion Protection
- E1266** Practice for Processing Mixtures of Lime, Fly Ash, and Heavy Metal Wastes in Structural Fills and Other Construction Applications
- E1527** Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process
- E1528** Practice for Limited Environmental Due Diligence: Transaction Screen Process

3. Significance and Use

3.1 This terminology defines terms and specialized meanings of terms in the subject areas of waste and management of waste.

3.2 This terminology is not intended for subjects other than waste and waste management. For terms applicable to other subject areas, the appropriate terminology standard(s) should be consulted. See the current edition of the Compilation of ASTM Standard Definitions⁴ and the list of terminology standards cited therein.

3.3 Standards relating to subcategories of waste or waste management may use terms defined more narrowly than those included here. The more specialized terminology standards relating to the applicable specific subcategory, or terms defined within individual standards, or both, should be consulted for the exact meaning intended within a given standard.

3.4 The Thesaurus on Resource Recovery Terminology (Special Technical Publication (STP) 832)⁵ contains many terms and may be useful for those not listed in terminology standards. However, a definition in a standard terminology shall be considered governing when the term is used in the sense or meaning defined therein.

⁴ *Compilation of ASTM Standard Definitions*, ASTM, 8th edition, 1994.

⁵ *Thesaurus on Resource Recovery Terminology*, ASTM STP 832, ASTM, 1983.