Designation: D7204 – 07

StandardPractice for Sampling Waste Streams on Conveyors[1]

This standard is issued under the fixed designation D7204; 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.

1. Scope

1.1 This practice describes standard procedures for sampling waste on open and closed conveying systems and is applicable to any waste material that can be conveyed to a waste pile or container. The conveyor system can be a vertical (vertical lifts), sloped or horizontal type.

1.2 This practice is intended for particles and slurries, which can be sampled using scoop, dipper or shovel type samplers.

1.3 The practice is not intended for large size sample constituents, such as boulders, large rocks, and debris.

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.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

D4547 Guide for Sampling Waste and Soils for Volatile Organic Compounds
D4687 Guide for General Planning of Waste Sampling
D4916 Practice for Mechanical Auger Sampling (Withdrawn 2008)[3]
D5088 Practice for Decontamination of Field Equipment Used at Waste Sites
D5283 Practice for Generation of Environmental Data Related to Waste Management Activities: Quality Assurance and Quality Control Planning and Implementation
D5633 Practice for Sampling with a Scoop
D5658 Practice for Sampling Unconsolidated Waste From Trucks
D5680 Practice for Sampling Unconsolidated Solids in Drums or Similar Containers
D5681 Terminology for Waste and Waste Management
D5792 Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives
D5956 Guide for Sampling Strategies for Heterogeneous Wastes
D6009 Guide for Sampling Waste Piles
D6051 Guide for Composite Sampling and Field Subsampling for Environmental Waste Management Activities
D6232 Guide for Selection of Sampling Equipment for Waste and Contaminated Media Data Collection Activities
D6250 Practice for Derivation of Decision Point and Confidence Limit for Statistical Testing of Mean Concentration in Waste Management Decisions
D6311 Guide for Generation of Environmental Data Related to Waste Management Activities: Selection and Optimization of Sampling Design

3. Terminology

3.1 *Definitions:*

3.1.1 See also Terminology D5681.

3.1.2 *field records, n*—information written in a field log book or loose leaf sampling forms at the time of sampling.

4. Significance and Use

4.1 This practice can be used in sampling ash from a kiln or incinerator, soils, and process waste from conveying systems, such as, a conveyer and vertical lifts. Some slurries, such as the bottom solids, can be sampled from the quench waters at the end of a kiln.

4.2 This practice can be used to determine material balances for burner efficiency studies and compliance studies.

4.3 This practice can be used on lifts, sloping, and horizontal conveyor systems. The type of conveyor and the amount and type of sample required will dictate the type of sampling equipment required to get a representative sample.

4.4 The sample is taken directly from the conveyor before emptying into the waste container or pile for disposal or recycling using a scoop, dipper, or shovel depending upon the sample requirements (see Practice D5633). The sample is then put into the sample container for analysis.

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[1] This practice is under the jurisdiction of ASTM Committee D34 on Waste Management and is the direct responsibility of Subcommittee D34.01.02 on Sampling Techniques.

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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.