



Designation: D5679 – 16 (Reapproved 2024)

Standard Practice for Sampling Consolidated Solids in Drums or Similar Containers¹

This standard is issued under the fixed designation D5679; 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 covers typical equipment and methods for collecting samples of consolidated solids in drums or similar containers. These methods are adapted specifically for sampling drums having a volume of 110 U.S. gal (416 L) or less. These methods are applicable to hazardous material, product, or waste. Specific sample collection and handling requirements should be described in the site-specific work plan.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

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

C702/C702M Practice for Reducing Samples of Aggregate to Testing Size

C783 Practice for Core Sampling of Graphite Electrodes

D4547 Guide for Sampling Waste and Soils for Volatile Organic Compounds

D4687 Guide for General Planning of Waste Sampling

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.

Current edition approved Nov. 1, 2024. Published November 2024. Originally approved in 1995. Last previous edition approved in 2016 as D5679 – 16. DOI: 10.1520/D5679-16R24.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

D4700 Guide for Soil Sampling from the Vadose Zone (Withdrawn 2024)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

2.2 NSC Document:⁴

Accident Prevention Manual for Industrial Operations, 1985

2.3 Government Documents:⁵

EPA/600/2-86/013 Drum Handling Practices at Hazardous Waste Sites, January 1986

NIOSH Publication 85-115 Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, October 1985

3. Terminology

3.1 Definitions:

3.1.1 *bonding*—touching the sampling equipment to the drum to form an electrically conductive path to minimize potential electrical differences between the sampling equipment and the drum, reducing the buildup of static electricity.

3.1.2 *bung*—usually a 2 in. (5.1 cm) or $\frac{3}{4}$ in. (1.3 cm) diameter threaded plug designed specifically to close a bung hole.

3.1.3 *bung hole*—an opening in a barrel or drum through which it can be filled, emptied, or vented.

3.1.4 *consolidated*—the characteristic of being cemented or compacted, or both, and not separated easily into smaller particles.

3.1.5 *deheading*—removal of the lid of a closed-head drum; usually accomplished with a drum deheader.

3.1.6 *drum*—implies any drum, barrel, or non-bulk container of 5 to 110 U.S. gal (19 to 416 L) capacity.

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

⁴ Available from National Safety Council (NSC), 1121 Spring Lake Dr., Itasca, IL 60143-3201, <http://www.nsc.org>.

⁵ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.