



Designation: D6966 – 24

Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Determination of Metals¹

This standard is issued under the fixed designation D6966; 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 the collection of settled dust on surfaces using the wipe sampling method. These samples are collected in a manner that will permit subsequent extraction and determination of target metals in the collected dusts using laboratory analysis techniques such as atomic spectrometry.

1.2 This practice does not address the sampling design criteria (that is, sampling plan which includes the number and location of samples) that are used for clearance, hazard evaluation, risk assessment, and other purposes. To provide for valid conclusions, sufficient numbers of samples should be obtained as directed by a sampling plan, for example, in accordance with Guide [D7659](#).

1.3 This practice contains notes that are explanatory and are not part of the mandatory requirements of this practice.

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

1.6 *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

¹ This practice is under the jurisdiction of ASTM Committee [D22](#) on Air Quality and is the direct responsibility of Subcommittee [D22.04](#) on Workplace Air Quality. Current edition approved Oct. 1, 2024. Published October 2024. Originally approved in 2003. Last previous edition approved in 2018 as D6966 – 18. DOI: 10.1520/D6966-24.

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.

[D1356](#) Terminology Relating to Sampling and Analysis of Atmospheres

[D4840](#) Guide for Sample Chain-of-Custody Procedures

[D7144](#) Practice for Collection of Surface Dust by Microvacuum Sampling for Subsequent Determination of Metals and Metalloids

[D7659](#) Guide for Strategies for Surface Sampling of Metals and Metalloids for Worker Protection

[D7707](#) Specification for Wipe Sampling Materials for Beryllium in Surface Dust

[E1792](#) Specification for Wipe Sampling Materials for Lead in Surface Dust

2.2 ISO Standards:³

[ISO/IEC 17025](#) General requirements for the competence of testing and calibration laboratories

[ISO 17034](#) General requirements for the competence of reference material producers

3. Terminology

3.1 For definitions of terms not listed here, see Terminology [D1356](#).

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *batch, n*—a group of field or quality control (QC) samples that are collected or processed together at the same time using the same reagents and equipment.

3.2.2 *field blank, n*—a wipe (see [3.3.1](#)) that is exposed to the same handling as field samples except that no sample is collected (no surface is actually wiped).

3.2.2.1 *Discussion*—Analysis results from field blanks provide information on the analyte background level in the wipe, combined with the potential contamination experienced by samples collected within the batch (see [3.2.1](#)) resulting from handling.

3.3 *Other Definitions:*

3.3.1 *wipe, n*—a disposable towelette that is moistened with a wetting agent.

3.3.1.1 *Discussion*—These towelettes are used to collect

³ Available from International Organization for Standardization (ISO), ISO Central Secretariat, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland, <https://www.iso.org>.