



Designation: D 6826 – 02a

# Standard Specification for Sprayed Slurries, Foams and Indigenous Materials Used As Alternative Daily Cover for Municipal Solid Waste Landfills<sup>1</sup>

This standard is issued under the fixed designation D 6826; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification defines procedures for determining the performance of certain landfill daily cover materials generally described as an alternative daily cover (ADC). This specification applies only to slurries that are sprayed, foams that are spray applied, or indigenous materials that are placed onto the working face of a Municipal Solid Waste Landfill (MSWLF) unit as a cover. It is not applicable to other types of landfills. It does not apply to geosynthetics used as an ADC.

1.2 This standard addresses the evaluation of an ADC and its ability to control fires and odors and whether or not the cover contains materials that present a threat to human health and the environment. The control of disease vectors and blowing litter can be evaluated by observation, and scavenging is controlled by security procedures and other operating practices.

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 and health practices and determine the applicability of regulatory requirements prior to use.*

## 2. Referenced Documents

### 2.1 ASTM Standards:

- D 4982 Test Methods for Flammability Potential Screening Analysis of Waste<sup>2</sup>
- D 6523 Guide for Evaluation and Selection of Alternative Daily Covers (ADCs) for Sanitary Landfills<sup>3</sup>
- E 96 Test Methods for Water Vapor Transmission of Materials<sup>4</sup>
- G 40 Terminology Relating to Wear and Erosion<sup>5</sup>

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee D35 on Geosynthetics and is the direct responsibility of Subcommittee D35.03 on Permeability and Filtration.

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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 11.04.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 04.13.

<sup>4</sup> *Annual Book of ASTM Standards*, Vol 04.06.

<sup>5</sup> *Annual Book of ASTM Standards*, Vol 03.02.

### 2.2 Other Documents:<sup>6</sup>

- U.S. Environmental Protection Agency Regulations, Resource Conservation and Recovery Act, Subtitle D, Code of Federal Regulations, Protection of the Environment, Title 40, Part 258, Subpart CB Operating Criteria, Section 258.21 Cover Material Requirements, pp. 393-94, revised as of July 1, 1995
- EPA Method 1311 Toxicity Characteristic Leaching Procedure
- EPA Method 1312 Synthetic Precipitation Leaching Procedure
- EPA Publication SW-846
- EPA Method 8260
- EPA Method 8270

## 3. Terminology

3.1 *Definitions*—For definitions of some terms used in this specification, refer to Terminology G 40.

### 3.2 Definitions of Terms Specific to This Standard:

3.2.1 *daily cover, n*—6 in. (152.4 mm) of earthen material that is spread and compacted on the top and side slopes of compacted solid waste, at least at the end of each operating day, which satisfies the U.S. Environmental Protection Agency, Resource Conservation and Recovery Act, Subtitle D.

3.2.1.1 *alternative daily cover material, n*—a substance or material other than 6 inches (152.4 mm) of earthen material, used for daily cover, which satisfies the U.S. Environmental Protection Agency, Resource Conservation and Recovery Act, Subtitle D, performance standards for an ADC (see Guide D 6523).

3.2.2 *foam, n*—a synthetic material sprayed and combined with air to form closed cell air pockets (see Guide D 6523).

3.2.3 *indigenous, adj*—native to a particular region (see Guide D 6523).

3.2.4 *leachate, n*—contaminated water resulting from the combination of waste with precipitation (see Guide D 6523).

<sup>6</sup> Available from the Superintendent of Documents, US Government Printing Office, Washington, DC 20402.