



Designation: D8082 – 18

Standard Specification for Elemental Impurity Limits in Erosion Control Products used for Land Application¹

This standard is issued under the fixed designation D8082; 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 standard provides a specification for elemental impurity limits in erosion control products used for land application. Erosion control products may include but are not limited to: hydraulically-applied erosion control products, rolled erosion control products, sediment retention devices, gabions and mattresses, and articulated concrete block revetments.

1.2 *Units*—The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 All observed and calculated values shall conform to the guidelines for significant digits and rounding established in Practice D6026, unless superseded by this specification.

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

1.5 *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

D653 Terminology Relating to Soil, Rock, and Contained Fluids

D3740 Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as

¹ This test method is under the jurisdiction of ASTM Committee D18 on Soil and Rock and is the direct responsibility of Subcommittee D18.25 on Erosion and Sediment Control Technology.

Current edition approved Aug. 1, 2018. Published August 2018. DOI: 10.1520/D8082-18.

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.

Used in Engineering Design and Construction
D3987 Practice for Shake Extraction of Solid Waste with Water

D6026 Practice for Using Significant Digits in Geotechnical Data

2.2 *Other Standards:*³

40 CFR 503.13 Pollutant Limits

EPA Method 1312 Mass Transfer Rates of Constituents in Monolithic or Compacted Granular Materials Using a Semi-Dynamic Tank Leaching Procedure

EPA Method 6010D Inductively Coupled Plasma—Optical Emission Spectrometry

EPA Method 7000B Flame Atomic Absorption Spectrophotometry

EPA Method 6020A Inductively Coupled Plasma—Mass Spectrometry Lethal Dose 50 (LD₅₀) or Effective Concentration 50 (EC₅₀) Method

3. Terminology

3.1 *Definitions:*

3.1.1 For definitions of common technical terms used in this standard, refer to Terminology D653.

3.2 *Acronyms:*

3.2.1 *ppm, n*—parts per million

4. Specification Requirements

4.1 Elemental impurity limits in erosion control products used for land application shall not exceed the concentration values for the elemental impurities listed in Table 1.

5. Sampling

5.1 Follow sampling procedures given in ASTM Practice D3987 to obtain the samples and test specimens. Products which are impermeable such as plastics and metal products need not be reduced below 100-gram sample sizes.

6. Test Methods

6.1 Use Practice D3987 or method EPA 1312 with extraction fluid #3 to extract the leachate.

³ For referenced Code of Federal Regulations and Environmental Protection Agency standards, visit their respective websites, www.gpo.gov/fdsys and www.epa.gov/hw.