



Standard Practice for Processing Mixtures of Lime, Fly Ash, and Heavy Metal Wastes in Structural Fills and Other Construction Applications¹

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1. Scope

1.1 This practice provides descriptions and references of existing test methods and commercial practices relating to the processing of lime, fly ash, and heavy metal wastes in construction applications.

1.2 *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:

- C 5 Specification for Quicklime for Structural Purposes²
- C 25 Test Method for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime²
- C 109 Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens)²
- C 110 Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone²
- C 206 Specification for Finishing Hydrated Lime²
- C 207 Specification for Hydrated Lime for Masonry Purposes²
- C 311 Test Method for Sampling and Testing Fly Ash or Natural Pozzolans for Use as a Mineral Admixture in Portland Cement Concrete³
- C 400 Test Method for Quicklime and Hydrated Lime for Neutralization of Waste Acid²
- C 593 Specification for Fly Ash and Other Pozzolans for Use with Lime²
- C 618 Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete³
- C 821 Specification for Lime for Use with Pozzolans²
- C 911 Specification for Quicklime, Hydrated Lime, and Limestone for Chemical Uses²

C 977 Specification for Quicklime and Hydrated Lime for Soil Stabilization²

D 559 Test Methods for Wetting and Drying Compacted Soil-Cement Mixtures⁴

D 560 Test Methods for Freezing and Thawing Compacted Soil-Cement Mixtures⁴

D 1557 Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))⁴

D 1633 Test Method for Compressive Strength of Molded Soil-Cement Cylinders⁴

D 2434 Test Method for Permeability of Granular Soils (Constant Head)⁴

D 2435 Test Method for One-Dimensional Consolidation Properties of Soils⁴

D 3877 Test Methods for One-Dimensional Expansion, Shrinkage, and Uplift Pressure of Soil-Lime Mixtures⁴

D 3987 Test Method for Shake Extraction of Solid Waste with Water⁵

D 4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils⁴

E 850 Practice for Use of Inorganic Process Wastes as Structural Fill⁵

2.2 Environmental Protection Agency Documents:

EPA Resource Conservation and Recovery Act (RCRA)⁶

EPA/SW-846 Test Methods for Evaluation of Solid Waste⁷

EPA Method 1310 Extraction Procedure (EP) Toxicity Test Method and Structural Integrity Test⁷

EPA/SW-872 Properties of Stabilized/Solidified Waste⁷

RCRA Document EPA-IAG-D4-0569 Guide to the Disposal of Chemically Stabilized and Solidified Waste⁷

Solvents⁸

Hazardous and Solid Waste Amendments (HSWA)⁸

Method 9095 Paint Filter Liquid Test (PFLT)⁷

EPA/530-SW-85-0031 Petitions to Delist Hazardous Waste:

⁴ Annual Book of ASTM Standards, Vol 04.08.

⁵ Annual Book of ASTM Standards, Vol 11.04.

⁶ Documents 12/18/78, 9/13/79, 5/26/82, 7/26/82, and 4/4/83, available from Federal Register U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402.

⁷ Available from Environmental Protection Agency, U.S. Government Printing Office.

⁸ Amendments available from Federal Register.

¹ This practice is under the jurisdiction of ASTM Committee D-34 on Waste Management and is the direct responsibility of Subcommittee D34.06 on Recovery and Reuse.

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² Annual Book of ASTM Standards, Vol 04.01.

³ Annual Book of ASTM Standards, Vol 04.02.