



Standard Specification for Pozzolanic Blended Materials in Construction Applications¹

This standard is issued under the fixed designation D 5370; 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 specification covers pozzolanic blended material for use in construction applications where the properties normally attributed to finely divided mineral admixtures may be desired.

1.2 The values stated in SI 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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- C 25 Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime²
- C 114 Test Methods for Chemical Analysis of Hydraulic Cement²
- C 125 Terminology Relating to Concrete and Concrete Aggregates³
- C 219 Terminology Relating to Hydraulic Cement²
- C 311 Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use as a Mineral Admixture in Portland-Cement Concrete³
- C 593 Specification for Fly Ash and Other Pozzolans for Use with Lime²
- C 618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete³

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *cement kiln dust*—the finely divided particulate matter carried from a cement kiln by the exhaust gases.

3.1.2 *pozzolanic blended material*—a pozzolan resulting from the intimate and uniform blend of two or more finely divided materials.

3.2 *Definitions*—Other terms used in this specification are defined in Terminologies C 125 or C 219 or Specification C 618.

4. Classification

4.1 The types of pozzolanic blended materials covered by this specification are as follows:

4.1.1 *Type FC*—Blended pozzolan consisting of an intimate and uniform blend of Class F fly ash and Class C fly ash, and

4.1.2 *Type FCKD*—Blended pozzolan consisting of an intimate and uniform blend of Class F fly ash and cement kiln dust.

5. Ordering Information

5.1 Include the following information in orders for blended pozzolan meeting the requirements of this specification:

5.1.1 The specification designation ASTM Specification D 5370,

5.1.2 The specification date, if other than the latest published version,

5.1.3 The quantity of blended pozzolan desired, and the classification desired,

5.1.4 A statement as to specific requirements or intended use of the blended pozzolan, and

5.1.5 Request for the manufacturers certification, if desired.

6. Materials and Manufacturer

6.1 The pozzolanic blended material is the result of an intimate and uniform blend.

NOTE 1—The attainment of an intimate and uniform blend of two types of fine material is difficult. Consequently, adequate equipment and controls must be provided by the manufacturer. The purchaser should ensure himself of the adequacy of the blending operation. See Appendix X1 for the procedure.

NOTE 2—Certain raw materials like fly ash and cement kiln dust, which blends are covered by this specification, vary from source to source, as well as within sources.

¹ This specification 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.