



Designation: C10/C10M – 13

## Standard Specification for Natural Cement<sup>1</sup>

This standard is issued under the fixed designation C10/C10M; 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 reappraisal. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

### 1. Scope\*

1.1 This specification covers natural cement and quick-setting natural cement.

NOTE 1—Examples of typical past uses of natural cement include unit masonry mortar, cement plaster, grout, whitewash, and concrete.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard. Values in SI units [or inch-pound units] shall be obtained by measurement in SI units [or inch-pound units] or by appropriate conversion, using the Rules for Conversion and Rounding given in [IEEE/ASTM SI 10](#), of measurements made in other units [or SI units]. Values are stated in only SI units when inch-pound units are not used in practice.

1.3 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

### 2. Referenced Documents

2.1 *ASTM Standards*:<sup>2</sup>

[C109/C109M Test Method for Compressive Strength of Hydraulic Cement Mortars \(Using 2-in. or \[50-mm\] Cube Specimens\)](#)

[C114 Test Methods for Chemical Analysis of Hydraulic Cement](#)

[C150 Specification for Portland Cement](#)

[C151 Test Method for Autoclave Expansion of Hydraulic Cement](#)

[C183 Practice for Sampling and the Amount of Testing of Hydraulic Cement](#)

[C185 Test Method for Air Content of Hydraulic Cement Mortar](#)

[C187 Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste](#)

[C188 Test Method for Density of Hydraulic Cement](#)

[C191 Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle](#)

[C204 Test Methods for Fineness of Hydraulic Cement by Air-Permeability Apparatus](#)

[C219 Terminology Relating to Hydraulic Cement](#)

[C305 Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency](#)

[C465 Specification for Processing Additions for Use in the Manufacture of Hydraulic Cements](#)

[C778 Specification for Sand](#)

[C786 Test Method for Fineness of Hydraulic Cement and Raw Materials by the 300- \$\mu\$ m \(No. 50\), 150- \$\mu\$ m \(No. 100\), and 75- \$\mu\$ m \(No. 200\) Sieves by Wet Methods](#)

[IEEE/ASTM SI 10 Standard for Use of the International System of Units \(SI\): The Modern Metric System](#)

### 3. Terminology

3.1 For definitions of terms related to this specification, see Terminology [C219](#).

### 4. Ordering Information

4.1 Orders for material under this specification shall include the following:

4.1.1 This specification number and date, and

4.1.2 Optional physical requirements as given in [7.2](#).

### 5. Additions

5.1 The cement covered by this specification shall contain no addition except as follows:

5.1.1 Water, or calcium sulfate, or both.

5.1.2 Processing additions used in the manufacture of the cement shall have been shown to meet the requirements of Specification [C465](#) in the amounts used or greater.

### 6. Chemical Requirements

6.1 Natural cements shall conform to the standard chemical requirements in [Table 1](#).

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee C01 on Cement and is the direct responsibility of Subcommittee C01.10 on Hydraulic Cements for General Concrete Construction.

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<sup>2</sup> 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.

\*A Summary of Changes section appears at the end of this standard