



# Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete<sup>1</sup>

This standard is issued under the designation C1064/C1064M; 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 approval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or approval.

This standard has been approved for use by agencies of the Department of Defense.

## 1. Scope<sup>2</sup>

1.1 This test method covers the determination of temperature of freshly mixed hydraulic-cement concrete.

1.2 The values stated in either SI 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.

1.3 The text of this standard reference notes and footnotes that provide explanatory information. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of this standard.

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 and health practices and determine the applicability of regulatory limitations prior to use. (Warning—Fresh hydraulic cementitious mixtures are caustic and may cause chemical burns to skin and tissue upon prolonged exposure.<sup>3</sup>)

## 2. Referenced Documents

### 2.1 ASTM Standards<sup>4</sup>

- C172 Practice for Sampling Freshly Mixed Concrete
- C670 Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials

## 3. Significance and Use

3.1 This test method provides a means for measuring the temperature of freshly mixed concrete. The measured tempera-

ture represents the temperature at the time of testing and may not be an indication of the temperature of the freshly mixed concrete at a later time. It may be used to verify conformance to a specified requirement for temperature of concrete.

3.2 Concrete containing aggregate of a nominal maximum size greater than 75 mm [3 in.] may require up to 20 min for the transfer of heat from aggregate to mortar. (See ACI Committee 207.1R Report.<sup>5</sup>)

## 4. Apparatus

4.1 Container, shall be large enough to provide at least 75 mm [3 in.] of concrete in all directions around the sensor of the temperature measuring device; concrete cover must also be at least three times the nominal maximum size of the coarse aggregate.

4.2 Temperature Measuring Device, shall be capable of accurately measuring the temperature of the freshly mixed concrete to  $\pm 0.5$  °C [ $\pm 1$  °F] throughout a range of 0° to 50 °C [30° to 120 °F]. The design of the temperature measuring device shall be such that it allows 75 mm [3 in.] or more immersion during operation.

4.3 Partial immersion liquid-in-glass thermometers (and possibly other types) shall have a permanent mark to which the device must be immersed without applying a correction factor.

4.4 Reference Temperature Measuring Device, shall be readable and accurate to  $\pm 0.2$  °C [0.5 °F] at the verification points in 5.1. A certificate or report that verifies the accuracy shall be available in the laboratory for review. Accuracy of liquid-in-glass reference temperature measuring devices shall be verified once. Verification of direct-reading resistance reference temperature measuring devices shall be performed every twelve months. The certificate or report shall provide documentation that the reference standard used in the verification is traceable to the National Institute of Standards and Technology (NIST).

<sup>1</sup> Available from American Concrete Institute (ACI), P.O. Box 9094, Farmington Hills, MI 48333-9094, <http://www.concrete.org>.

<sup>2</sup> A Summary of Changes section appears at the end of this standard.



## 5. Verification of the Accuracy of Temperature Measuring Devices

5.1 The accuracy of each temperature measuring device used for determining the temperature of freshly mixed concrete shall be verified annually, or whenever there is a question of accuracy. Verify the accuracy of the temperature measuring device by comparing the readings of the reference temperature measuring device to the temperature measuring device at two temperatures at least 15 °C [30 °F] apart.

6.2.3 Place the freshly mixed concrete into the container.

## 7. Procedure

7.1 Position the temperature measuring device so that the end of the temperature sensing portion is submerged a minimum of 75 mm [3 in.] into the freshly mixed concrete. Close the void left by the placement by gently pressing the concrete around the temperature measuring device at the surface of the concrete to prevent ambient air temperature from affecting the

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