



Designation: C 94/C 94M – 03

Standard Specification for Ready-Mixed Concrete¹

This standard is issued under the fixed designation C 94/C 94M; 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.

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

1. Scope

1.1 This specification covers ready-mixed concrete manufactured and delivered to a purchaser in a freshly mixed and unhardened state as hereinafter specified. Requirements for quality of concrete shall be either as hereinafter specified or as specified by the purchaser. In any case where the requirements of the purchaser differ from these in this specification, the purchaser's specification shall govern. This specification does not cover the placement, consolidation, curing, or protection of the concrete after delivery to the purchaser.

1.2 The values stated in either SI units, shown in brackets, 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 As used throughout this specification the manufacturer shall be the contractor, subcontractor, supplier, or producer who furnishes the ready-mixed concrete. The purchaser shall be the owner or representative thereof.

1.4 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:

- C 31/C 31M Practice for Making and Curing Concrete Test Specimens in the Field²
- C 33 Specification for Concrete Aggregates²
- C 39/C 39M Test Method for Compressive Strength of Cylindrical Concrete Specimens²
- C 109/C 109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens)³

- C 138 Test Method for Unit Weight, Yield, and Air Content (Gravimetric) of Concrete²
 - C 143/C 143M Test Method for Slump of Hydraulic Cement Concrete²
 - C 150 Specification for Portland Cement³
 - C 172 Practice for Sampling Freshly Mixed Concrete²
 - C 173 Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method²
 - C 191 Test Method for Time of Setting of Hydraulic Cement by Vicat Needle³
 - C 231 Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method²
 - C 260 Specification for Air-Entraining Admixtures for Concrete²
 - C 330 Specification for Lightweight Aggregates for Structural Concrete²
 - C 494 Specification for Chemical Admixtures for Concrete²
 - C 567 Test Method for Unit Weight of Structural Lightweight Concrete²
 - C 595 Specification for Blended Hydraulic Cements³
 - C 618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete²
 - C 989 Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars²
 - C 1017 Specification for Chemical Admixtures for Use in Producing Flowing Concrete²
 - C 1064 Test Method for Temperature of Freshly Mixed Portland-Cement Concrete²
 - C 1077 Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation²
 - C 1157 Performance Specification for Hydraulic Cement³
 - D 512 Test Methods for Chloride Ion in Water⁴
 - D 516 Test Method for Sulfate Ion in Water⁴
- 2.2 ACI Documents:⁵**
- CP-1 Technician Workbook for ACI Certification of Concrete Field Testing Technician—Grade I

¹ This specification is under the jurisdiction of ASTM Committee C09 on Concrete and Concrete Aggregates and is the direct responsibility of Subcommittee C09.40 on Ready-Mixed Concrete.

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² Annual Book of ASTM Standards, Vol 04.02.

³ Annual Book of ASTM Standards, Vol 04.01.

⁴ Annual Book of ASTM Standards, Vol 11.01.

⁵ Available from American Concrete Institute, 38800 Country Club Drive, Farmington Hills, MI 48331.