



ASTM International Technical Committee C09 on Concrete and Concrete Aggregates

Established: 1914

Number of Members: 1,100+

Number of Standards: 165

Global Participation: 58 Countries represented

The standards are available in: Volume 04.02 in the *Annual Book of ASTM Standards*

Meetings: C09 meets two times each year, in June and December

SCOPE:

(1) The assembling and study of data pertaining to the properties of hydraulic-cement concrete and its constituent materials, including the study of the effect of characteristics of materials and mixtures on the properties of concrete; and (2) the development of standards for concrete and for the constituent materials of concrete (except cement), as well as for certain related materials, such as materials used in curing.

The scope of the Committee does not include the field of design and construction of concrete structures except insofar as references need to be made to construction methods in special cases of concrete as “over-the-counter” material.

Note: In accordance with an agreement between the ASTM and The American Concrete Institute, The Institute will refrain from specification writing for “over-the-counter” engineering materials and ASTM will refrain from standardization efforts in design and construction practice.

GENERAL OVERVIEW:

Committee C09, jointly with Committee C01, oversees the activities of the Cement and Concrete Reference Laboratory (CCRL) <http://ccrl.us/>, which operates programs that promote the quality of testing in construction materials laboratories. These are the inspection and proficiency sample programs that provide laboratories with a mechanism for determining the quality of their testing of hydraulic cement, portland cement concrete and aggregates, steel reinforcing bars, pozzolans, and masonry materials using ASTM standards.

The Proficiency Sample Programs (PSP) were developed as a means for a laboratory to monitor the quality of its testing between CCRL on-site assessments. The information that CCRL provides gives some indication of a laboratory’s overall proficiency for given tests.

The Laboratory Inspection Program provides a laboratory with a comprehensive account of how its procedures, practices, equipment, and facilities compare with ASTM standards requirements. The CCRL laboratory inspector checks critical equipment dimensions and operating characteristics, watches a technician demonstrate test procedures, and reviews the quality system when covered by appropriate ASTM standards. The goal is to provide a consistent and fair evaluation so that the laboratory and its clients may have confidence that testing is of high quality and that ASTM standards are being used correctly.



Visit the ASTM

Committee C09 Webpage:

<http://www.astm.org/COMMIT/C09.htm>

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KEY DOCUMENTS:

- MNL 49 User's Guide to ASTM Specification C94 for Ready-Mixed Concrete
- C33 Standard Specification for Concrete Aggregates
- C39/C39M Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- C94/C94M Standard Specification for Ready-Mixed Concrete
- STP 169D - Significance of Tests and Properties of Concrete and Concrete-Making Materials

LIST OF C09 SUBCOMMITTEES:

- | | |
|--|---|
| C09.20 Normal Weight Aggregates | C09.48 Performance of Cementitious Materials and Admixture Combinations |
| C09.21 Lightweight Aggregates and Concrete | C09.49 Pervious Concrete |
| C09.22 Materials Applied to New Concrete Surfaces | C09.60 Testing Fresh Concrete |
| C09.23 Chemical Admixtures | C09.61 Testing for Strength |
| C09.23.01 Setting Time | C09.62 Abrasion Testing |
| C09.23.02 Air-Entraining Admixtures | C09.64 Nondestructive and In-Place Testing |
| C09.23.03 Chemical Admixtures | C09.65 Petrography |
| C09.23.04 Corrosion Inhibitors | C09.66 Concrete's Resistance to Fluid Penetration |
| C09.23.05 Pigments for Integrally Colored Concrete | C09.67 Resistance to the Environment |
| C09.23.06 Cold Weather Admixtures | C09.68 Volume Change |
| C09.23.07 Chemical Admixtures for Segregation Resistance | C09.69 Miscellaneous Tests |
| C09.24 Supplementary Cementitious Materials | C09.90 Executive |
| C09.25 Organic Materials for Bonding | C09.90.01 Strategic Planning |
| C09.26 Chemical Reactions | C09.91 Terminology |
| C09.27 Ground Slag | C09.92 International Activities (Joint C09 and C01) |
| C09.40 Ready-Mixed Concrete | C09.93 Papers and Symposia (Joint C09 and C01) |
| C09.41 Pre-placed Aggregate Concrete for Radiation Shielding | C09.94 Evaluation of Data (Joint C09 and C01) |
| C09.42 Fiber-Reinforced Concrete | C09.95 Coordination |
| C09.43 Packaged Dry Combined Materials | C09.96 Cement and Concrete Reference Laboratory (Joint C09 and C01) |
| C09.44 Polymer-Modified Concrete and Mortars | C09.97 Manual of Testing |
| C09.45 Roller-Compacted Concrete | C09.98 Evaluation of Laboratories |
| C09.46 Shotcrete | C09.99 Research (Joint C09 and C01) |
| C09.47 Self-Consolidating Concrete | |

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