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ASTM International Technical Committee C09 on Concrete and Concrete Aggregates

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.

ASTM's Construction Materials Technician Series enables QA/QC technicians in the construction industry to advance their skills using leading, self-guided, computer-based training. The series is ideal for those preparing to become certified testing technicians through the American Concrete Institute (ACI), National Institute for Certification in Engineering Technologies (NICET), or a state agency such as the Department of Transportation (DOT).

Quick Facts

Established 1914
Number of Members 1,550+
Number of Standards 180+
Global Participation
65 Countries represented
The standards are available in
Volume 04.02 in the *Annual Book of ASTM Standards*
Meetings C09 meets twice each year, in June and December

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Key Documents

- MNL 49 User's Guide to ASTM Specification C94 for Ready-Mixed Concrete
- C31 Standard Practice for Making and Curing Concrete Test Specimens in the Field
- 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
- C136 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
- C1077 Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
- STP 169D - Significance of Tests and Properties of Concrete and Concrete-Making Materials
- STP 1511 - Recent Advancement in Concrete Freezing-Thawing (F-T) Durability
- ASTM Standards for Ready-Mixed Concrete: 4th Edition

C09 Subcommittee

C09.20 Normal Weight Aggregates
C09.21 Lightweight Aggregates and Concrete
C09.22 Materials Applied to New Concrete Surfaces
C09.23 Chemical Admixtures
C09.23. 01 Setting Time
C09.23.02 Air-Entraining Admixtures
C09.23.03 Chemical Admixtures
C09.23.04 Durability Enhancing Admixtures
C09.23.05 Pigments for Integrally Colored Concrete
C09.23.06 Cold Weather Admixtures
C09.23.07 Chemical Admixtures for Segregation Resistance
C09.24 Supplementary Cementitious Materials
C09.25 Organic Materials for Bonding
C09.26 Chemical Reactions
C09.27 Ground Slag
C09.48 Performance of Cementitious Materials and Admixture Combinations
C09.49 Pervious Concrete
C09.60 Testing Fresh Concrete
C09.61 Testing for Strength
C09.62 Abrasion Testing
C09.64 Nondestructive and In-Place Testing
C09.65 Petrography
C09.66 Concrete's Resistance to Fluid Penetration
C09.40 Ready-Mixed Concrete
C09.41 Hydraulic Cement Grouts
C09.42 Fiber-Reinforced Concrete
C09.43 Packaged Dry Combined Materials
C09.44 Polymer-Modified Concrete and Mortars
C09.45 Roller-Compacted Concrete
C09.46 Shotcrete
C09.47 Self-Consolidating Concrete
C09.48 Performance of Cementitious Materials and Admixture Combinations
C09.49 Pervious Concrete
C09.50 Risk Management for Alkali Aggregate Reactions
C09.60 Testing Fresh Concrete
C09.61 Testing for Strength
C09.62 Abrasion Testing
C09.64 Nondestructive and In-Place Testing

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