



ADVANCING STANDARDS
TRANSFORMING MARKETS

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ASTM International Technical Committee C01 on Cement

SCOPE

The development of specifications, methods of test, recommended practices, and terminology for hydraulic cements including portland, natural, pozzolanic, masonry and slag cements, and modifications of the foregoing, and combinations during manufacture thereof; the investigation of the properties of hydraulic cements and the promotion of improvement and uniformity of testing of these materials; joint sponsorship with ASTM Committee C09 on Concrete and Concrete Aggregates, of the Cement and Concrete Reference Laboratory, a cooperative project of the Government and ASTM.

OVERVIEW

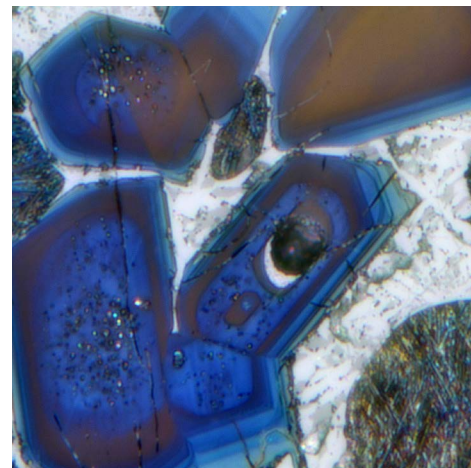
Committee C01 jointly with Committee C09, oversees the activities of the Cement and Concrete Reference Laboratory (CCRL) <http://ccrl.us/>, which operates programs that promote the quality of testing in construction materials laboratories. These are the inspection and proficiency sample programs that 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 onsite 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.

TECHNICAL SUBCOMMITTEES

- C01.10 Hydraulic Cements for General Concrete Construction
- C01.11 Masonry Cement
- C01.13 Special Cements
- C01.14 Non-hydraulic Cements
- C01.20 Additions
- C01.21 Air Entrainment
- C01.22 Workability
- C01.23 Compositional Analysis



QUICK FACTS

Established 1902

Number of Members 590+

Number of Standards 62

Global Participation 49 Countries
represented

The standards are available in
Volume 04.01 in the *Annual Book*
of *ASTM Standards*

Meetings C01 meets twice each year,
in June and December

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- C01.25 Fineness
- C01.26 Heat of Hydration
- C01.27 Strength
- C01.28 Sulfate Content
- C01.29 Sulfate Resistance
- C01.30 Time of Set
- C01.31 Volume Change
- C01.48 Performance of Cementitious Materials and Admixture Combinations
- C01.74 International Standards (Joint C01 and C09)
- C01.90 Executive
 - C01.90.01 Strategic Planning
- C01.91 Terminology
- C01.92 Administrative Coordination
- C01.93 Papers and Symposia (Joint C01 and C09)
- C01.94 Evaluation of Data (Joint C01 and C09)
- C01.95 Coordination of Standards
- C01.96 Cement and Concrete Reference Laboratory (Joint C01 and C09)
- C01.97 Manual for Cement Testing
- C01.99 Research Topics and Evaluation of Standards

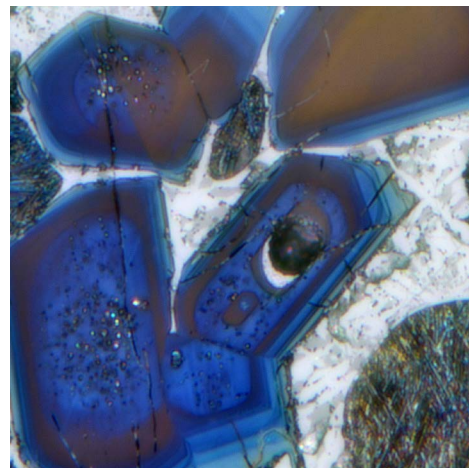
KEY DOCUMENTS

C150 — Standard Specification for Portland Cement

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

C490 / C490M — Standard Practice for Use of Apparatus for the Determination of length Change of Hardened Cement Paste, Mortar, and Concrete

C1157 — Standard Performance Specification for Hydraulic Cement.



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