



## ASTM International Technical Committee C01 on Cement

**Established:** 1902  
**Number of Members:** 465  
**Number of Standards:** 50+  
**Global Participation:** 40 Countries represented  
**The standards are available in:** Volume 04.01 in the *Annual Book of ASTM Standards*  
**Meetings:** C01 meets two times each year, in June and December

### 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

### GENERAL 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 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.

### 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



Visit the ASTM

Committee C01 Webpage:

<http://www.astm.org/COMMIT/C01.htm>

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### **LIST OF C01 SUBCOMMITTEES:**

C01.10 Hydraulic Cements for General Concrete Construction  
C01.11 Masonry Cement  
C01.13 Special Cements  
C01.20 Additions  
C01.21 Air Entrainment  
C01.22 Workability  
C01.23 Compositional Analysis  
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  
C01.32 Alkali  
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 (C01 and C09)

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