

**MIDDLE EAST TECHNICAL UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING
MATERIALS OF CONSTRUCTION LABORATORY**

CE344 LAB-1

TESTS ON PORTLAND CEMENTS

- Below, the most widely conducted ASTM standard tests of Portland cement are listed.
- The tests shown with asterisks are the tests conducted within this lab session.
- For detailed information about these tests, access <http://enterprise.astm.org/> within METU campus to be able download these standards. If you are logging in off-campus you need to write your ID and Password in order to be able to download the files.

ASTM C150 Standard Specification for Portland Cement

***ASTM C188** Standard Test Method for Density of Hydraulic Cement

***ASTM C204** Standard Test Methods for Fineness of Hydraulic Cement by Air-Permeability Apparatus

ASTM C187 Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste

ASTM C191 Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle

ASTM C150 Standard Test Method for Autoclave Expansion of Hydraulic Cement

ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars

***ASTM C1437** Standard Test Method for Flow of Hydraulic Cement Mortar

***ASTM C348** Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars

***ASTM C349** Standard Test Method for Compressive Strength of Hydraulic-Cement Mortars (Using Portions of Prisms Broken in Flexure)

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