



CERTIFICATE OF ACCREDITATION



Ash Grove Cement Company

in

Overland Park, Kansas, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).

Jim Tymon,
AASHTO Executive Director

Matt Linneman,
AASHTO COMP Chair

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SCOPE OF AASHTO ACCREDITATION FOR:

Ash Grove Cement Company
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Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	08/15/1988
C1222 (Cement)	Evaluation of Laboratories Testing Hydraulic Cement	01/10/2011



SCOPE OF AASHTO ACCREDITATION FOR:

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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	12/19/2017
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	12/19/2017
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	12/19/2017
T21	Organic Impurities in Fine Aggregates for Concrete	12/19/2017
T27	Sieve Analysis of Fine and Coarse Aggregates	04/07/2021
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	12/19/2017
T85	Specific Gravity and Absorption of Coarse Aggregate	12/19/2017
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	12/19/2017
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	09/21/2026
T112	Clay Lumps and Friable Particles in Aggregate	12/19/2017
T113	Lightweight Pieces in Aggregate	12/19/2017
T255	Total Moisture Content of Aggregate by Drying	12/19/2017
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	11/16/2012
C40	Organic Impurities in Fine Aggregates for Concrete	08/15/1988
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	01/12/2024
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	08/15/1988
C123	Lightweight Pieces in Aggregate	12/19/2017
C127	Specific Gravity and Absorption of Coarse Aggregate	01/10/2014
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	08/15/1988
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/16/2012
C136	Sieve Analysis of Fine and Coarse Aggregates	08/15/1988
C142	Clay Lumps and Friable Particles in Aggregate	12/19/2017
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	12/19/2017



SCOPE OF AASHTO ACCREDITATION FOR:

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Aggregate (Continued)

Standard:	Accredited Since:
C566 Total Moisture Content of Aggregate by Drying	08/15/1988
C702 Reducing Samples of Aggregate to Testing Size	08/15/1988



SCOPE OF AASHTO ACCREDITATION FOR:

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Cementitious Material - Chemical Tests

Standard:	Accredited Since:
T105 Aluminum Oxide – X-Ray Fluorescence	12/19/2017
T105 Calcium Oxide – X-Ray Fluorescence	12/19/2017
T105 Chloride – X-Ray Fluorescence	07/08/2026
T105 Ferric Oxide – X-Ray Fluorescence	12/19/2017
T105 Free Calcium Oxide – Alternative	07/08/2026
T105 Insoluble Residue – Reference	12/19/2017
T105 Loss on Ignition – Reference	12/19/2017
T105 Magnesium Oxide – X-Ray Fluorescence	12/19/2017
T105 Manganic Oxide – X-Ray Fluorescence	12/19/2017
T105 Phosphorus Pentoxide – X-Ray Fluorescence	12/19/2017
T105 Potassium Oxide – X-Ray Fluorescence	12/19/2017
T105 Silicon Dioxide – X-Ray Fluorescence	12/19/2017
T105 Sodium Oxide – X-Ray Fluorescence	12/19/2017
T105 Sulfur Trioxide – X-Ray Fluorescence	12/19/2017
T105 Titanium Dioxide – X-Ray Fluorescence	01/12/2024
T105 Zinc Oxide – X-Ray Fluorescence	07/08/2026
C114 Aluminum Oxide – X-Ray Fluorescence	06/15/1997
C114 Calcium Oxide – X-Ray Fluorescence	06/15/1997
C114 Chloride – X-Ray Fluorescence	07/08/2026
C114 Ferric Oxide – X-Ray Fluorescence	06/15/1997
C114 Free Calcium Oxide – Alternative	07/08/2026
C114 Insoluble Residue – Reference	06/15/1997
C114 Loss on Ignition – Reference	06/15/1997



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Cementitious Material - Chemical Tests (Continued)

Standard:	Accredited Since:
C114 Magnesium Oxide – X-Ray Fluorescence	06/15/1997
C114 Manganic Oxide – X-Ray Fluorescence	06/15/1997
C114 Phosphorus Pentoxide – X-Ray Fluorescence	06/15/1997
C114 Potassium Oxide – X-Ray Fluorescence	06/15/1997
C114 Silicon Dioxide – X-Ray Fluorescence	06/15/1997
C114 Sodium Oxide – X-Ray Fluorescence	06/15/1997
C114 Sulfur Trioxide – X-Ray Fluorescence	06/15/1997
C114 Titanium Dioxide – X-Ray Fluorescence	01/12/2024
C114 Zinc Oxide – X-Ray Fluorescence	07/08/2026



SCOPE OF AASHTO ACCREDITATION FOR:

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Cement - Physical Tests

Standard:

Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/19/2017
R71	Sampling and the Amount of Testing of Hydraulic Cement	12/19/2017
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/19/2017
T105 (Loss on Ignition - Reference)	Loss on Ignition – Reference	02/01/2021
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/19/2017
T129	Normal Consistency of Hydraulic Cement	12/19/2017
T133	Density of Hydraulic Cement	02/01/2021
T137	Air Content of Hydraulic Cement Mortar	12/19/2017
T153	Fineness of Hydraulic Cement by Air Permeability Apparatus	12/19/2017
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	02/01/2021
T186	Early Stiffening of Hydraulic Cement (Paste Method)	12/19/2017
T192	Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	12/19/2017
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	06/15/1997
C114 (Loss on Ignition - Reference)	Loss on Ignition – Reference	02/01/2021
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	02/01/2021
C183	Sampling and the Amount of Testing of Hydraulic Cement	06/15/1997
C185	Air Content of Hydraulic Cement Mortar	06/15/1997
C187	Normal Consistency of Hydraulic Cement	06/15/1997
C188	Density of Hydraulic Cement	02/01/2021
C204	Fineness of Hydraulic Cement by Air Permeability Apparatus	06/15/1997
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	06/15/1997
C430	Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	06/15/1997
C451	Early Stiffening of Hydraulic Cement (Paste Method)	06/15/1997



SCOPE OF AASHTO ACCREDITATION FOR:

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Cement - Physical Tests (Continued)

Standard:		Accredited Since:
C452	Potential Expansion of Portland-Cement Mortars Exposed to Portland Cement	02/01/2021
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	11/16/2012
C1012	Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	06/15/1997
C1038	Expansion of Hydraulic Cement Mortar Bars Stored in Water	02/01/2021
C1437	Flow of Hydraulic Cement Mortar	02/01/2021
C1702	Measurement of Heat of Hydration of Hydraulic Cementitious Materials Using Isothermal Conduction Calorimetry	12/19/2017



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Concrete

Standard:

Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/19/2017
R39	Making and Curing Concrete Test Specimens in the Laboratory	12/19/2017
R60	Sampling Freshly Mixed Concrete	12/19/2017
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	12/19/2017
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	12/19/2017
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	07/08/2026
R119	Grinding the Ends of Cylindrical Concrete Specimens	07/08/2026
T22	Compressive Strength of Cylindrical Concrete Specimens	12/19/2017
T24 (Drilling Cores of Concrete)	Drilling Cores of Concrete	07/08/2026
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	12/19/2017
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	12/19/2017
T119	Slump of Hydraulic Cement Concrete	12/19/2017
T121	Density (Unit Weight), Yield, and Air Content of Concrete	12/19/2017
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	12/19/2017
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	07/08/2026
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	12/19/2017
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	12/29/2015
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	12/29/2015
T309	Temperature of Freshly Mixed Portland Cement Concrete	12/19/2017
T358	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	01/12/2024
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	11/16/2012
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/16/2012
C39	Compressive Strength of Cylindrical Concrete Specimens	08/15/1988



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Concrete (Continued)

Standard:		Accredited Since:
C42 (Drilling Cores of Concrete)	Drilling Cores of Concrete	07/08/2026
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	11/16/2012
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/16/2012
C138	Density (Unit Weight), Yield, and Air Content of Concrete	08/15/1988
C143	Slump of Hydraulic Cement Concrete	08/15/1988
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	07/08/2026
C172	Sampling Freshly Mixed Concrete	08/15/1988
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	08/15/1988
C192	Making and Curing Concrete Test Specimens in the Laboratory	11/16/2012
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	08/15/1988
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	07/08/2026
C457	Microscopical Determination of Parameters of the Air-Void System in Hardened Concrete	08/15/1988
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	11/16/2012
C1064	Temperature of Freshly Mixed Portland Cement Concrete	08/15/1988
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	08/15/1988
C1218	Water-Soluble Chloride in Mortar and Concrete	02/01/2021
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	11/16/2012
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	08/15/1988
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	08/15/1988
C1542	Measuring Length of Concrete Cores	12/19/2017
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	08/15/1988



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Pozzolan

Standard:

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M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/19/2017
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/19/2017
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/19/2017
T129	Normal Consistency of Hydraulic Cement	12/19/2017
T133	Density of Hydraulic Cement	12/19/2017
T137	Air Content of Hydraulic Cement Mortar	12/19/2017
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	12/19/2017
T192	Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	12/19/2017
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/29/2015
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	12/29/2015
C185	Air Content of Hydraulic Cement Mortar	12/29/2015
C187	Normal Consistency of Hydraulic Cement	12/29/2015
C188	Density of Hydraulic Cement	12/29/2015
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/29/2015
C311 (Loss on Ignition)	Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete (Loss on Ignition)	12/29/2015
C311 (Moisture Content)	Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete (Moisture Content)	07/08/2026
C430	Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	12/29/2015
C441	Effectiveness of Pozzolans or Ground Blast-Furnace Slag in Preventing Excessive Expansion of Concrete Due to the Alkali-Silica Reaction	07/08/2026
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/29/2015
C1012	Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	12/29/2015
C1437	Flow of Hydraulic Cement Mortar	02/01/2021



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Slag Cement

Standard:

Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/01/2021
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/01/2021
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	02/01/2021
T133	Density of Hydraulic Cement	02/01/2021
T137	Air Content of Hydraulic Cement Mortar	02/01/2021
T153	Fineness of Hydraulic Cement by Air Permeability Apparatus	04/07/2021
T192	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	02/01/2021
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	02/01/2021
C185	Air Content of Hydraulic Cement Mortar	02/01/2021
C188	Density of Hydraulic Cement	02/01/2021
C204	Fineness of Hydraulic Cement by Air Permeability Apparatus	04/07/2021
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/01/2021
C430	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	02/01/2021
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/01/2021
C1038	Expansion of Hydraulic Cement Mortar Bars Stored in Water	02/01/2021
C1437	Flow of Hydraulic Cement Mortar	02/01/2021