



# CERTIFICATE OF ACCREDITATION



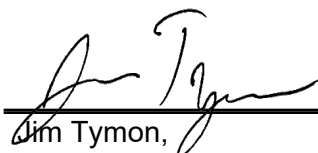
## Vulcan Materials Company

in

**Avondale, Arizona, 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](https://aashtoresource.org)).

  
Jim Tymon,  
AASHTO Executive Director

  
Matt Linneman,  
AASHTO COMP Chair

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# SCOPE OF AASHTO ACCREDITATION FOR:

Vulcan Materials Company

in Avondale, Arizona, USA

## Quality Management System

### Standard:

### Accredited Since:

|                         |                                                                                                                                        |            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------|
| R18                     | Establishing and Implementing a Quality System for Construction Materials Testing Laboratories                                         | 12/12/2014 |
| C1077 (Aggregate)       | Laboratories Testing Concrete and Concrete Aggregates                                                                                  | 10/20/2021 |
| D3666 (Aggregate)       | Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials                                                     | 01/31/2017 |
| D3666 (Asphalt Mixture) | Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials                                                     | 01/31/2017 |
| D3740 (Soil)            | Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction | 01/31/2017 |



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Asphalt Mixture

### Standard:

### Accredited Since:

|       |                                                                                                                       |            |
|-------|-----------------------------------------------------------------------------------------------------------------------|------------|
| R30   | Mixture Conditioning of Hot Mix Asphalt (HMA)                                                                         | 01/31/2017 |
| R35   | Superpave Volumetric Design for Hot Mix Asphalt (HMA)                                                                 | 01/31/2017 |
| R47   | Reducing Samples of Hot-Mix Asphalt to Testing Size                                                                   | 09/16/2009 |
| R68   | Preparation of Asphalt Mixtures by Means of the Marshall Apparatus                                                    | 09/16/2009 |
| R97   | Sampling Bituminous Paving Mixtures                                                                                   | 10/20/2021 |
| T30   | Mechanical Analysis of Extracted Aggregate                                                                            | 09/16/2009 |
| T166  | Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens                              | 09/16/2009 |
| T167  | Compressive Strength of Hot Mix Asphalt                                                                               | 09/16/2009 |
| T209  | Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures                                                           | 09/16/2009 |
| T245  | Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus                                               | 09/16/2009 |
| T269  | Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures                                              | 09/16/2009 |
| T283  | Resistance of Compacted Mixtures to Moisture Induced Damage                                                           | 09/16/2009 |
| T305  | Draindown Characteristics of HMA                                                                                      | 03/03/2025 |
| T308  | Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method                                       | 09/16/2009 |
| T312  | Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor | 09/16/2009 |
| T324  | Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)                                                        | 10/20/2021 |
| T329  | Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method                                                              | 09/16/2009 |
| T340  | Determining Rutting Susceptibility of Hot Mix Asphalt (HMA) Using the Asphalt Pavement Analyzer (APA)                 | 10/20/2021 |
| D979  | Sampling Bituminous Paving Mixtures                                                                                   | 01/31/2017 |
| D1074 | Compressive Strength of Hot Mix Asphalt                                                                               | 09/16/2009 |
| D1075 | Effect of Water on Cohesion of Compacted Bituminous Mixtures                                                          | 09/16/2009 |
| D2041 | Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures                                                           | 09/16/2009 |
| D2726 | Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens                              | 09/16/2009 |



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Asphalt Mixture (Continued)

### Standard:

### Accredited Since:

|                                                                                                                                         |            |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------|
| D3203 Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures                                                          | 09/16/2009 |
| D3549 Thickness or Height of Compacted Bituminous Paving Mixture Specimens                                                              | 10/20/2021 |
| D4867 Resistance of Compacted Mixtures to Moisture Induced Damage                                                                       | 09/16/2009 |
| D5444 Mechanical Analysis of Extracted Aggregate                                                                                        | 09/16/2009 |
| D6307 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method                                                   | 09/16/2009 |
| D6925 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor             | 09/16/2009 |
| D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus                                                                | 09/16/2009 |
| D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus                                                           | 09/16/2009 |
| D8225 Determination of Cracking Tolerance Index of Asphalt Mixture Using the Indirect Tensile Cracking Test at Intermediate Temperature | 03/03/2025 |



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## Soil

### Standard:

### Accredited Since:

|       |                                                                                                   |            |
|-------|---------------------------------------------------------------------------------------------------|------------|
| R58   | Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test                             | 09/16/2009 |
| R74   | Wet Preparation of Disturbed Soil Samples for Test                                                | 09/16/2009 |
| T89   | Determining the Liquid Limit of Soils (Atterberg Limits)                                          | 12/12/2014 |
| T90   | Plastic Limit of Soils (Atterberg Limits)                                                         | 12/12/2014 |
| T99   | The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop | 12/12/2014 |
| T100  | Specific Gravity of Soils                                                                         | 01/31/2017 |
| T134  | Moisture-Density Relations of Soil-Cement Mixtures                                                | 09/16/2009 |
| T180  | Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop    | 12/12/2014 |
| T265  | Laboratory Determination of Moisture Content of Soils                                             | 09/16/2009 |
| T288  | Minimum Soil Resistivity                                                                          | 12/12/2014 |
| T289  | pH of Soils for Corrosion Testing                                                                 | 12/12/2014 |
| D421  | Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test                             | 09/16/2009 |
| D558  | Moisture-Density Relations of Soil-Cement Mixtures                                                | 09/16/2009 |
| D698  | The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop | 12/12/2014 |
| D1140 | Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve                            | 09/16/2009 |
| D1557 | Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop    | 12/12/2014 |
| D2216 | Laboratory Determination of Moisture Content of Soils                                             | 09/16/2009 |
| D4318 | Determining the Liquid Limit of Soils (Atterberg Limits)                                          | 12/12/2014 |
| D4318 | Plastic Limit of Soils (Atterberg Limits)                                                         | 12/12/2014 |



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## Aggregate

### Standard:

### Accredited Since:

|                       |                                                                                                         |            |
|-----------------------|---------------------------------------------------------------------------------------------------------|------------|
| R76                   | Reducing Samples of Aggregate to Testing Size                                                           | 12/16/2003 |
| R90                   | Sampling Aggregate                                                                                      | 11/30/2018 |
| T11                   | Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing                       | 12/16/2003 |
| T19                   | Bulk Density ("Unit Weight") and Voids in Aggregate                                                     | 12/16/2003 |
| T21                   | Organic Impurities in Fine Aggregates for Concrete                                                      | 12/16/2003 |
| T27                   | Sieve Analysis of Fine and Coarse Aggregates                                                            | 12/16/2003 |
| T84                   | Specific Gravity (Relative Density) and Absorption of Fine Aggregate                                    | 12/16/2003 |
| T85                   | Specific Gravity and Absorption of Coarse Aggregate                                                     | 12/16/2003 |
| T96                   | Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | 12/16/2003 |
| T100 (Mineral Filler) | Specific Gravity of Mineral Filler on Asphalt Mixture Designs                                           | 10/20/2021 |
| T112                  | Clay Lumps and Friable Particles in Aggregate                                                           | 12/16/2003 |
| T176                  | Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test                         | 12/16/2003 |
| T210                  | Aggregate Durability Index                                                                              | 12/16/2003 |
| T255                  | Total Moisture Content of Aggregate by Drying                                                           | 12/16/2003 |
| T304                  | Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)                  | 12/16/2003 |
| T335                  | Determining the Percentage of Fractured Particles in Coarse Aggregate                                   | 01/31/2017 |
| C29                   | Bulk Density ("Unit Weight") and Voids in Aggregate                                                     | 12/16/2003 |
| C40                   | Organic Impurities in Fine Aggregates for Concrete                                                      | 12/16/2003 |
| C117                  | Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing                       | 12/16/2003 |
| C127                  | Specific Gravity and Absorption of Coarse Aggregate                                                     | 12/16/2003 |
| C128                  | Specific Gravity (Relative Density) and Absorption of Fine Aggregate                                    | 12/16/2003 |
| C131                  | Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | 12/16/2003 |
| C136                  | Sieve Analysis of Fine and Coarse Aggregates                                                            | 12/16/2003 |



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## Aggregate (Continued)

| Standard: |                                                                                                            | Accredited Since: |
|-----------|------------------------------------------------------------------------------------------------------------|-------------------|
| C142      | Clay Lumps and Friable Particles in Aggregate                                                              | 12/16/2003        |
| C535      | Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | 12/16/2003        |
| C566      | Total Moisture Content of Aggregate by Drying                                                              | 12/16/2003        |
| C702      | Reducing Samples of Aggregate to Testing Size                                                              | 12/16/2003        |
| C1252     | Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)                     | 12/16/2003        |
| D75       | Sampling Aggregate                                                                                         | 11/30/2018        |
| D2419     | Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test                            | 12/16/2003        |
| D3744     | Aggregate Durability Index                                                                                 | 12/16/2003        |
| D4791     | Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate                   | 12/16/2003        |
| D5821     | Determining the Percentage of Fractured Particles in Coarse Aggregate                                      | 12/16/2003        |