



Designation: D692/D692M – 09

# Standard Specification for Coarse Aggregate for Bituminous Paving Mixtures<sup>1</sup>

This standard is issued under the fixed designation D692/D692M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers crushed stone, crushed hydraulic-cement concrete, crushed blast-furnace slag, crushed gravel, crushed expanded shale, crushed expanded clay, and crushed expanded slate suitable for use in bituminous paving mixtures, as described in Specifications [D3515](#) or [D4215](#).

NOTE 1—Other slags having demonstrated a satisfactory service record may be used.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

## 2. Referenced Documents

2.1 *ASTM Standards*:<sup>2</sup>

- [C29/C29M Test Method for Bulk Density \(“Unit Weight”\) and Voids in Aggregate](#)
- [C88 Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate](#)
- [C125 Terminology Relating to Concrete and Concrete Aggregates](#)
- [C131 Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine](#)
- [C136 Test Method for Sieve Analysis of Fine and Coarse Aggregates](#)
- [C294 Descriptive Nomenclature for Constituents of Concrete Aggregates](#)

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.50 on Aggregate Specifications.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

- [D8 Terminology Relating to Materials for Roads and Pavements](#)
- [D75 Practice for Sampling Aggregates](#)
- [D448 Classification for Sizes of Aggregate for Road and Bridge Construction](#)
- [D3319 Practice for the Accelerated Polishing of Aggregates Using the British Wheel](#)
- [D3515 Specification for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures \(Withdrawn 2009\)<sup>3</sup>](#)
- [D3665 Practice for Random Sampling of Construction Materials](#)
- [D4215 Specification for Cold-Mixed, Cold-Laid Bituminous Paving Mixtures](#)
- [D5821 Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate](#)

## 3. Terminology

3.1 *Definitions*:

3.1.1 For defining aggregate types, see Descriptive Nomenclature [C294](#), and Terminology [D8](#) and [C125](#).

3.1.2 *expanded shale, n; expanded clay, n; expanded slate, n*—the product resulting from the expanding of selected materials (shale, clay, or slate) in a rotary kiln at temperatures over 1000°C [1832°F].

## 4. Ordering Information

4.1 Orders for the material under this specification shall include the following information:

4.1.1 The specification designation and year of issue.

4.1.2 The size to be furnished (see [5.2](#)).

4.1.3 The quantity required.

4.1.4 Use of the coarse aggregate, whether for conventional mixtures or open-graded friction course mixtures (see [5.4](#)), and whether for surface courses or base courses (see [5.7](#)),

4.1.5 In the case of sulfate soundness tests ([5.6](#)), which salt is to be used.

4.1.6 Any special requirements.

## 5. Physical Requirements

5.1 *General*—The coarse aggregate shall consist of hard, strong, durable pieces, free of coherent coatings and conforming to the requirements of this specification.

<sup>3</sup> The last approved version of this historical standard is referenced on [www.astm.org](http://www.astm.org).