



Standard Specification for Nontraditional Coarse Aggregates for Bituminous Paving Mixtures¹

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1. Scope

1.1 This specification covers the use of coarse aggregates not traditionally used in bituminous paving mixtures. These nontraditional aggregates can be described as any aggregate other than those described in Specifications D 692, D 693, D 1139, and D 5106, (crushed stone, crushed hydraulic-cement concrete, crushed blast-furnace slag, steel furnace slag, and crushed gravel) suitable for use in bituminous paving mixtures, as described in Specifications D 3515 or D 4215.

1.2 The values stated in SI units are to be regarded as the standard. The inch-pound units given in parentheses are for information only.

2. Referenced Documents

2.1 ASTM Standards:

- C 29/C 29M Test Method for Unit Weight and Voids in Aggregate²
- C 88 Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate²
- C 125 Terminology Relating to Concrete and Concrete Aggregates²
- C 131 Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion, and Impact in the Los Angeles Machine²
- C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates²
- C 142 Test Method for Clay Lumps and Friable Particles in Aggregates²
- C 294 Descriptive Nomenclature of Constituents of Natural Mineral Aggregates²
- D 8 Terminology Relating to Materials for Roads and Pavements³
- D 75 Practice for Sampling Aggregates³
- D 448 Classification for Sizes of Aggregate for Road and Bridge Construction³
- D 692 Specification for Coarse Aggregate for Bituminous Paving Mixtures³

- D 693 Specification for Crushed Aggregate for Macadam Pavements³
- D 1139 Specification for Single or Multiple Bituminous Surface Treatments³
- D 2489 Test Method for Degree of Particle Coating of Bituminous-Aggregate Mixtures³
- D 3319 Test Method for Accelerated Polishing of Aggregates Using the British Wheel³
- D 3398 Test Method for Index of Aggregate Particle Shape and Texture³
- D 3515 Specification for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures³
- D 3665 Practice for Random Sampling of Construction Materials³
- D 4215 Specification for Cold-Mixed, Cold-Laid Bituminous Paving Mixtures³
- D 4792 Test Method for Potential Expansion of Aggregates from Hydration Reactions³
- D 5106 Specification for Steel Slag Aggregates for Bituminous Paving Mixtures⁴
- D 5711 Test Method for Adherent Fines³

2.2 U. S. Environmental Protection Agency Standards:

- SW846 1311 EPA Test Method, Toxicity Characteristic Leaching Procedure⁵

3. Terminology

3.1 *Definitions*—For defining aggregate types, see Descriptive Nomenclature C 294, and Terminologies C 125 and D 8.

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 number as given in Classification D 448 or grading to be furnished,
- 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 5.3 and 5.4), and whether for surface courses or base courses,

¹ This specification is under the jurisdiction of ASTM Committee D-4 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.50 on Aggregate Specifications.

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² *Annual Book of ASTM Standards*, Vol 04.02.

³ *Annual Book of ASTM Standards*, Vol 04.03.

⁴ *Annual Book of ASTM Standards*, Vol 11.04.

⁵ Available from Department of Commerce, National Technical Information Center, 5285 Port Royal Road, Springfield, VA 22151. Order Number: EPASW-846.3.3.