



Designation: D 1139 – 00

Standard Specification for Aggregate for Single or Multiple Bituminous Surface Treatments¹

This standard is issued under the fixed designation D 1139; 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 (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense. This specification replaces Federal Specification SS-S-445, Class C, Types I, II, and III.

1. Scope

1.1 This specification covers the quality and sizes of crushed stone, crushed slag, crushed expanded shale, crushed expanded clay, crushed expanded slate, and crushed or uncrushed gravel suitable for use as aggregate in single or multiple bituminous surface treatments.

1.2 The values in SI units are to be regarded as standard. Inch-pound units, shown in parentheses, are for information only.

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:

- 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 123 Test Method for Lightweight Particles in Aggregate²
- 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
- 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 3665 Practice for Random Sampling of Construction Materials³

D 4791 Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Course Aggregate³

D 5821 Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate³

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 Other terms used in this specification are defined in Terminologies C 125 and D 8.

3.1.2 *crushed slag, n*—the product resulting from the crushing of air-cooled iron blast-furnace slag.

3.1.3 *gravel, n*—the product resulting from natural disintegration and abrasion of rock or processing of weakly bound conglomerate.

3.1.4 *uncrushed gravel, n*—the product resulting from screening and blending of material from the deposit, consisting of particles with a shape and texture largely dependent on the nature of the deposit. Some particles containing fractured faces, resulting from the crushing of oversized material, are not prohibited from this product.

3.1.5 *crushed gravel, n*—the product resulting from the crushing of gravel, with a requirement that at least a prescribed percentage of the resulting particles have fracture faces. Some uncrushed particles are not prohibited.

3.1.6 *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.

4. Ordering Information

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

- 4.1.1 Specification designation number and year of issue,
- 4.1.2 Size to be furnished (see 6.1),

¹ This specification is under the jurisdiction of ASTM Committee D04 on Roads 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.