



Designation: D 242 – 95 (Reapproved 2000)^{e1}

Standard Specification for Mineral Filler For Bituminous Paving Mixtures¹

This standard is issued under the fixed designation D 242; 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.

^{e1} NOTE—Paragraph 1.3 was added editorially (BOCA caveat) February 2001.

1. Scope

1.1 This specification covers mineral filler added as a separate ingredient for use in bituminous paving mixtures.

1.2 The values stated in SI units are to be regarded as the 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 50 Practice for Sampling, Inspection, Packing, and Marking of Lime and Limestone Products²

C 183 Practice for Sampling and the Amount of Testing of Hydraulic Cement²

C 311 Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use as a Mineral Admixture in Portland Cement Concrete³

D 546 Test Method for Sieve Analysis of Mineral Filler for Road and Paving Materials⁴

D 4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils⁵

¹ 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.

Current edition approved Sept. 10, 1995. Published November 1995. Originally published as D 242 – 26. Last previous edition D 242 – 85 (1990).

² Annual Book of ASTM Standards, Vol 04.01.

³ Annual Book of ASTM Standards, Vol 04.02.

⁴ Annual Book of ASTM Standards, Vol 04.03.

⁵ Annual Book of ASTM Standards, Vol 04.08.

3. General Description

3.1 Mineral filler shall consist of finely divided mineral matter such as rock dust, slag dust, hydrated lime, hydraulic cement, fly ash, loess, or other suitable mineral matter. At the time of use, it shall be sufficiently dry to flow freely and essentially free from agglomerations.

4. Physical Requirements

4.1 Mineral filler shall be graded within the following limits:

Sieve	Percent Passing (by Mass)
600- μ m (No. 30)	100
300- μ m (No. 50)	95 to 100
75- μ m (No. 200)	70 to 100

4.2 Mineral Filler prepared from rock dust, slag dust, loess, and similar materials shall be essentially free from organic impurities and have a plasticity index not greater than 4.

NOTE 1—Plasticity index limits are not appropriate for hydraulic lime and cement.

5. Methods of Sampling and Testing

5.1 Sample the mineral filler according to Practice C 50, C 183, or Test Methods C 311, whichever is most appropriate for the material being sampled, except as noted in 5.1.1.

5.1.1 Obtain samples at random intervals not to exceed each 300 tons of material as delivered.

5.2 The minimum size of field samples shall be 5.0 kg. Reduce the field sample to a minimum size of 2.5 kg for testing.

5.3 Determine the grading of the material by Test Method D 546.

5.4 Determine the plasticity index by Test Method D 4318.