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Standard Specification for Mineral Filler For Bituminous Paving Mixtures¹

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

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.~~

1.2 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:*²

C 50 Practice for Sampling, Sample Preparation, Packaging, and Marking of Lime and Limestone Products

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

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

D 546 Test Method for Sieve Analysis of Mineral Filler for Bituminous Paving Materials Mixtures

D 4318 Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils

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)
1.18 mm (No. 16)	100
1.18 mm [No. 16]	100
600-μm (No. 30)	97 to 100
600- μ m [No. 30]	97 to 100
300-μm (No. 50)	95 to 100
300- μ m [No. 50]	95 to 100
75-μm (No. 200)	70 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 hydrated lime and hydraulic cement.

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.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.