



Designation: D 2419 – 9502

Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate¹

This standard is issued under the fixed designation D 2419; 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 test method is intended to serve as a rapid field-correlation test. The purpose of this test method is to indicate, under standard conditions, the relative proportions of clay-like or plastic fines and dust in granular soils and fine aggregates that pass the No. 4 (4.75-mm) 4.75-mm (No. 4) sieve. The term “sand equivalent” expresses the concept that most granular soils and fine aggregates are mixtures of desirable coarse particles, sand, and generally undesirable clay or plastic fines and dust.

NOTE 1—Some agencies perform the test on material with a top size smaller than the No. 4 (4.75-mm) 4.75-mm (No. 4) sieve. This is done to avoid trapping the clay-like or plastic fines and dust below flaky shaped No. 4 4.75 to 8 (4.75 to 2.36 mm (No. 4 to 8) sized particles. Testing smaller top sized material may lower the numerical results of the test.

1.2 Units of Measurement:

1.2.1 With regard to sieve sizes and the size of aggregate as determined by the use of testing sieves, the

1.2.1 The values in inch-pound units are shown for the convenience of the user; however, the standard sieve designation shown in parentheses is the standard value as stated in Specification E 11.

1.2.2 With regard to mass, the values shown in SI units are to be regarded as the standard.

1.2.3 With regard to other units standard, with the exception of measure, the dimensions of the special sand equivalent test apparatus described in inch-pound units Fig. 1, in which the the inch dimensions are to be regarded as standard. standard. Values in parentheses are for information only.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:

¹ This test method is under the jurisdiction of ASTM Committee D-4 D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.51 on Aggregate Tests.

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