

Standard Test Method for Particle-Size Analysis of Soils¹

This standard is issued under the fixed designation D422; 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.

¹ NOTE—Editorial changes made throughout in February 2014.

1. Scope

1.1 This test method covers the quantitative determination of the distribution of particle sizes in soils. The distribution of particle sizes larger than 75 μm (retained on the No. 200 sieve) is determined by sieving, while the distribution of particle sizes smaller than 75 μm is determined by a sedimentation process, using a hydrometer to secure the necessary data (**Note 1** and **Note 2**).

Note 1—Separation may be made on the No. 4 (4.75-mm), No. 40 (425- μm), or No. 200 (75- μm) sieve instead of the No. 10. For whatever sieve used, the size shall be indicated in the report.

Note 2—Two types of dispersion devices are provided; (1) a high-speed mechanical stirrer, and (2) air dispersion. Extensive investigations indicate that air-dispersion devices produce a more positive dispersion of plastic soils below the 20- μm size and appreciably less degradation on all sizes when used with sandy soils. Because of the definite advantages favoring air dispersion, its use is recommended. The results from the two types of devices differ in magnitude, depending upon soil type, leading to marked differences in particle size distribution, especially for sizes finer than 20 μm .

2. Referenced Documents

2.1 ASTM Standards:²

- D421 Practice for Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants**
- E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves**
- E100 Specification for ASTM Hydrometers**

2.2 ASTM Adjuncts:

Air-Jet Dispersion Cup for Grain-Size Analysis of Soil³

3. Apparatus

3.1 **Balances**—A balance sensitive to 0.01 g for weighing the material passing a No. 10 (2.00-mm) sieve, and a balance sensitive to 0.1 % of the mass of the sample to be weighed for weighing the material retained on a No. 10 sieve.

3.2 **Stirring Apparatus**—Either apparatus A or B may be used.

3.2.1 **Apparatus A** shall consist of a mechanically operated stirring device in which a suitably mounted electric motor turns a vertical shaft at a speed of not less than 10 000 rpm without load. The shaft shall be equipped with a replaceable stirring paddle made of metal, plastic, or hard rubber, as shown in **Fig. 1**. The shaft shall be of such length that the stirring paddle will operate not less than 1/4 in. (19.0 mm) nor more than 1 1/2 in. (38.1 mm) above the bottom of the dispersion cup. A special dispersion cup conforming to either of the designs shown in **Fig. 2** shall be provided to hold the sample while it is being dispersed.

3.2.2 **Apparatus B** shall consist of an air-jet dispersion cup (see drawing ³) (**Note 3**) conforming to the general details shown in **Fig. 3** (**Note 4** and **Note 5**).

Note 3—The amount of air required by an air-jet dispersion cup is of the order of 2 ft³/min; some small air compressors are not capable of supplying sufficient air to operate a cup.

Note 4—Another air-type dispersion device, known as a dispersion tube, developed by Chu and Davidson at Iowa State College, has been shown to give results equivalent to those secured by the air-jet dispersion cups. When it is used, washing of the sample can be done in the sedimentation cylinder, thus eliminating the need for transferring the slurry. When the air-dispersion tube is used, it shall be so indicated in the report.

Note 5—Water may condense in air lines when not in use. This water must be removed, either by using a water trap on the air line, or by blowing the water out of the line before using any of the air for dispersion purposes.

3.3 **Hydrometer**—An ASTM hydrometer, graduated to read in either specific gravity of the suspension or grams per litre of suspension, and conforming to the requirements for hydrometers 151H or 152H in Specifications **E100**. Dimensions of both hydrometers are the same, the scale being the only item of difference.

3.4 **Sedimentation Cylinder**—A glass cylinder essentially 18 in. (457 mm) in height and 2 1/8 in. (63.5 mm) in diameter, and

¹ This test method is under the jurisdiction of ASTM Committee D18 on Soil and Rock, and is the direct responsibility of Subcommittee D18.03 on Test Methods, Properties and Density Characterization of Soils.

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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.

³ Available from ASTM International Headquarters. Order Adjunct No. A12M00422.

Astm D422 63 Grain Size Analysis

**Babu T. Jose, Dipak Kumar Sahoo, Eun
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