Designation: D 698 – 00a$^{\epsilon 1}$

Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3(600 kN-m/m^3))^1

This standard is issued under the fixed designation D 698; 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.

ε^1 NOTE—Paragraph 10.4.3 was corrected editorially in November 2003.

1. Scope*

1.1 These test methods covers laboratory compaction methods used to determine the relationship between water content and dry unit weight of soils (compaction curve) compacted in a 4 or 6-in. (101.6 or 152.4-mm) diameter mold with a 5.5-lbf (24.4-N) rammer dropped from a height of 12 in. (305 mm) producing a compactive effort of 12,400 ft-lbf/ft^3(600 kN-m/m^3).

NOTE 1—The equipment and procedures are similar as those proposed by R. R. Proctor (*Engineering News Record*—September 7, 1933) with this one major exception: his rammer blows were applied as "12 inch firm strokes" instead of free fall, producing variable compactive effort depending on the operator, but probably in the range 15,000 to 25,000 ft-lbf/ft^3 (700 to 1,200 kN-m/m^3). The standard effort test (see 3.2.2) is sometimes referred to as the Proctor Test.

NOTE 2—Soils and soil-aggregate mixtures should be regarded as natural occurring fine- or coarse-grained soils or composites or mixtures of natural soils, or mixtures of natural and processed soils or aggregates such as silt, gravel, or crushed rock.

1.2 These test methods apply only to soils (materials) that have 30 % or less by mass of particles retained on the ¾-inch (19.0-mm) sieve.

NOTE 3—For relationships between unit weights and water contents of soils with 30 % or less by mass of material retained on the ¾-in. (19.0-mm) sieve to unit weights and water contents of the fraction passing

1.3.1.4 *Blows per layer*—25.

1.3.1.5 *Use*—May be used if 20 % or less by mass of the material is retained on the No. 4 (4.75-mm) sieve.

1.3.1.6 *Other Use*—If this method is not specified, materials that meet these gradation requirements may be tested using Methods B or C.

1.3.2 *Method B*:

1.3.2.1 *Mold*—4-in. (101.6-mm) diameter.

1.3.2.2 *Material*—Passing ¾-in. (9.5-mm) sieve.

1.3.2.3 *Layers*—Three.

1.3.2.4 *Blows per layer*—25.

1.3.2.5 *Use*—Shall be used if more than 20 % by mass of the material is retained on the No. 4 (4.75-mm) sieve and 20 % or less by mass of the material is retained on the ¾-in. (9.5-mm) sieve.

1.3.2.6 *Other Use*—If this method is not specified, materials that meet these gradation requirements may be tested using Method C.

1.3.3 *Method C*:

1.3.3.1 *Mold*—6-in. (152.4-mm) diameter.

1.3.3.2 *Material*—Passing ¾-inch (19.0-mm) sieve.

1.3.3.3 *Layers*—Three.

1.3.3.4 *Blows per layer*—56.

1.3.3.5 *Use*—Shall be used if more than 20 % by mass of

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ASTM D698-12e2, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft 3 (600 kN-m/m 3)), ASTM International, West Conshohocken, PA, 2012, www.astm.org

ASTM D698 - 12e2 Standard Test Methods for Laboratory ...
standard test methods for laboratory compaction characteristics of soil using standard effort (12400 ft-lbf/ft3 (600 kn-m/m3)) / note: 2. editorial change

ASTM D 698 - Janvier 2012
ASTM D698-07, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft 3 (600 kN-m/m 3)), ASTM International, West Conshohocken, PA, 2007, www.astm.org. Back to Top

ASTM D698 - 07 Standard Test Methods for Laboratory ...
astm d698 April 27, 1978 STANDARD TEST METHODS FOR MOISTURE-DENSITY RELATIONS OF SOILS AND SOIL-AGGREGATE MIXTURES USING 5.5-LB (2.49-KG) RAMMER AND 12-IN.

ASTM D698 - Standard Test Methods for Laboratory ...
ASTM D698, 2012 Edition, May 1, 2012 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft3 (600 kN-m/m3))

ASTM D698 : Standard Test Methods for Laboratory ...
ASTM: D698-91, BS1377: Part 4; Clause 3. INTRODUCTION. As described in Geotechnical Engineering, soil being a particulate medium contain pore spaces, which may or may not be filled with water. When the soil which has high void ratio, subject to external forces, the soil particles will be pushed to fill the voids spaces, as a results the soil will be subjected to large deformations. Therefore ...

Standard Proctor Test ASTM: D698-91 Apparatus, Procedure ...
1 These Test Methods are under the jurisdiction of ASTM Committee D18 on Soil and Rock and are the direct responsibility of Subcommittee D18.03 on Texture, Plasticity and Density Characteristics of Soils. Current edition approved April 15, 2007. Published July 2007. Originally approved in 1942. Last previous edition approved in 2000 as D 698 – 00ae1.

Standard Test Methods for Laboratory Compaction ...
ASTM D7698-20, Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method, ASTM International, West Conshohocken, PA, 2020, www.astm.org

ASTM D7698 - 20 Standard Test Method for In-Place ...
ASTM D6928-17, Standard Test Method for Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus, ASTM International, West Conshohocken, PA, 2017, www.astm.org. Back to Top

ASTM D6928 - 17 Standard Test Method for Resistance of ...
There are three main differences between this standard and Test Method D698. Firstly, this standard allows a maximum particle size of 3 / 4-in. [19.0 mm] for a 4-in. [101.6-mm] mold while Test Method D698 allows a maximum particle size of 3 / 8-in. [9.5-mm] for the same size mold. Secondly, this standard permits the material leftover after the water content specimen has been obtained to be mixed with the rest of the sample and reused for the next determination. Test Method

ASTM D558 / D558M - 19 Standard Test Methods for Moisture ...
standard test method for magnetic shield efficiency in attenuating alternating magnetic fields

ASTM A 698/A 698M - Janvier 2020
This video reviews ASTM D698, Compaction Characteristics of Soil using the Standard Effort

ASTM D698 - YouTube
ASTM-D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft 3 (600 kN-m/m 3)) - compaction characteristics; density; impact compaction; laboratory tests ; moisture-density curves; proctor test; soil; soil compaction; standard effort;; ICS Number Code 93.020 (Earth works.

ASTM-D698 | Standard Test Methods for Laboratory ...
ASTM D8167/D8167M - Standard Test Method for In-Place Bulk Density of Soil and Soil-Aggregate by a Low- Activity Nuclear Method (Shallow Depth) Published by ASTM on November 15, 2018

ASTM D6938 - Standard Test Methods for In-Place Density ...
Standard Proctor Compaction test (ASTM D698-07) for the soil water content (moisture content) click here https://youtu.be/O1xUKGcS728

Standard Proctor Compaction test (ASTM D698-07) - YouTube
ASTM D698. Related Standards: ASTM C127, ASTM C136, ASTM D653, ASTM D854, ASTM D2168, ASTM D2216, ASTM D2487, ASTM D2488, ASTM D3740, ASTM D4253, ASTM D4718, ASTM D4753, ASTM D4914, ASTM D5030, ASTM D6026, ASTM D6913, ASTM E11, ASTM E177, ASTM E691AASHTO T99 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort

ASTM D698 Standard - humboldtmfg.com
ASTM D698-12 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft 3 (600 kN-m/m 3)). 1.1 These test methods cover laboratory compaction methods used to determine the relationship between molding water content and dry unit weight of soils (compaction curve) compacted in a 4 or 6-in. (101.6 or 152.4-mm) diameter mold with a 5.50-lbf (24 ...

ASTM D698-12 - Standard Test Methods for Laboratory ...
Designation: D698 − 12´1 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft 3(600 kN-m/m))1 This standard is issued under the fixed designation D698; the number immediately following the designation indicates the year of

Standard Test Methods for Laboratory Compaction ...
ASTM D698-00a. June 10, 2000 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft 3 (600 kN-m/m 3)) 1.1 This test method covers laboratory compaction procedures used to determine the relationship between water content and dry unit weight of soils (compaction curve) compacted in a 4 or 6-in. (101.6... ASTM D698-00ae1. June 10, 2000 ...
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ASTM D698: A list of Gilson products that meet ASTM D698 standard.

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