



Designation: D698 – 12 (Reapproved 2021)

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

This standard is issued under the fixed designation D698; 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 U.S. Department of Defense.

1. Scope

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 (24.5-N) rammer dropped from a height of 12.0 in. (305 mm) producing a compactive effort of 12 400 ft-lbf/ft³ (600 kN-m/m³).

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/ft³ (700 to 1200 kN-m/m³). The standard effort test (see 3.1.4) is sometimes referred to as the Proctor Test.

1.1.1 Soils and soil-aggregate mixtures are to 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 gravel or crushed rock. Hereafter referred to as either soil or material.

1.2 These test methods apply only to soils (materials) that have 30 % or less by mass of particles retained on the $\frac{3}{4}$ -in. (19.0-mm) sieve and have not been previously compacted in the laboratory; that is, do not reuse compacted soil.

1.2.1 For relationships between unit weights and molding water contents of soils with 30 % or less by mass of material retained on the $\frac{3}{4}$ -in. (19.0-mm) sieve to unit weights and molding water contents of the fraction passing $\frac{3}{4}$ -in. (19.0-mm) sieve, see Practice D4718/D4718M.

1.3 Three alternative methods are provided. The method used shall be as indicated in the specification for the material being tested. If no method is specified, the choice should be based on the material gradation.

1.3.1 Method A:

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 July 1, 2021. Published July 2021. Originally approved in 1942. Last previous edition approved in 2012 as D698 – 12 ϵ . DOI: 10.1520/D0698-12R21.

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

1.3.1.2 *Material*—Passing No. 4 (4.75-mm) sieve.

1.3.1.3 *Layers*—Three.

1.3.1.4 *Blows per Layer*—25.

1.3.1.5 *Usage*—May be used if 25 % or less (see 1.4) by mass of the material is retained on the No. 4 (4.75-mm) sieve.

1.3.1.6 *Other Usage*—If this gradation requirement cannot be met, then Method C may be used.

1.3.2 Method B:

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

1.3.2.2 *Material*—Passing $\frac{3}{4}$ -in. (9.5-mm) sieve.

1.3.2.3 *Layers*—Three.

1.3.2.4 *Blows per Layer*—25.

1.3.2.5 *Usage*—May be used if 25 % or less (see 1.4) by mass of the material is retained on the $\frac{3}{4}$ -in. (9.5-mm) sieve.

1.3.2.6 *Other Usage*—If this gradation requirement cannot be met, then Method C may be used.

1.3.3 Method C:

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

1.3.3.2 *Material*—Passing $\frac{3}{4}$ -in. (19.0-mm) sieve.

1.3.3.3 *Layers*—Three.

1.3.3.4 *Blows per Layer*—56.

1.3.3.5 *Usage*—May be used if 30 % or less (see 1.4) by mass of the material is retained on the $\frac{3}{4}$ -in. (19.0-mm) sieve.

1.3.4 The 6-in. (152.4-mm) diameter mold shall not be used with Method A or B.

Note 2—Results have been found to vary slightly when a material is tested at the same compactive effort in different size molds, with the smaller mold size typically yielding larger values of density/unit weight (1, pp. 21+).

1.4 If the test specimen contains more than 5 % by mass of oversize fraction (coarse fraction) and the material will not be included in the test, corrections must be made to the unit mass and molding water content of the specimen or to the appropriate field-in-place density test specimen using Practice D4718/D4718M.

1.5 This test method will generally produce a well-defined maximum dry unit weight for non-free draining soils. If this

² The boldface numbers in parentheses refer to the list of references at the end of this standard.

*A Summary of Changes section appears at the end of this standard.

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Birute Vanatta



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Geotechnical Properties of Oil Shale Retorted by the PARAHO and TOSCO Processes Frank C. Townsend, Richard W. Peterson, 1979 *Ch.1-6. Construction inspection* United States. Soil Conservation Service, 1957 **Airport pavement, design and evaluation** United States. Federal Aviation Administration, 1989 **Standards for Specifying Construction of Airports** United States. Federal Aviation Administration, 1989 **Santa Ana River Main Stem and Santiago Creek**, 1978 Research and Development Program on the Disposal of Retorted Oil Shale, Paraho Oil Shale Project Woodward-Clyde Consultants, 1975 *Getty and Cities Service Shale Oil Projects, Garfield County*, 1984 Basics of Computational Geophysics Pijush Samui, Barnali Dixon, Dieu Tien Bui, 2020-11-27 Basics of Computational Geophysics provides a one stop collective resource for practitioners on the different techniques and models in geoscience their practical applications and case studies The reference provides the modeling theory in an easy to read format that is verified with onsite models for specific regions and scenarios including the use of big data and artificial intelligence This book offers a platform whereby readers will learn theory practical applications and the comparison of real world problems surrounding geomechanics modeling and optimizations Covers various advanced computational techniques for solving different problems in geophysics including the use of Big Data and artificial intelligence Includes case studies that provide examples surrounding practical applications Provides an assessment of the capabilities of commercial software **Handbook of Electronics Manufacturing Engineering** Bernie Matisoff, 2012-12-06 This single source reference offers a pragmatic and accessible approach to the basic methods and procedures used in the manufacturing and design of modern electronic products Providing a strategic yet simplified layout this handbook is set up with an eye toward maximizing productivity in each phase of the electronics manufacturing process Not only does this handbook inform the reader on vital issues concerning electronics manufacturing and design it also provides practical insight and will be of essential use to manufacturing and process engineers in electronics and aerospace manufacturing In addition electronics packaging engineers and electronics manufacturing managers and supervisors will gain a wealth of knowledge **Handbook of Electronics Manufacturing Engineering** Bernard S. Matisoff, 2012-12-06 **A Review of the Physical and Engineering Properties of Raw and Retorted Oil Shales from the Green River Formation** Donald Snethen, Warren J. Farrell, Frank C. Townsend, 1977 *Over 200 U.S. Department of Energy Manuals Combined: CLASSICAL PHYSICS; ELECTRICAL SCIENCE; THERMODYNAMICS, HEAT TRANSFER AND FLUID FUNDAMENTALS; INSTRUMENTATION AND CONTROL; MATHEMATICS; CHEMISTRY; ENGINEERING SYMBIOLOGY; MATERIAL SCIENCE; MECHANICAL SCIENCE; AND NUCLEAR PHYSICS AND REACTOR THEORY*, Over 19 000 total pages Public Domain U S Government published manual Numerous illustrations and matrices Published in the 1990s and after 2000 TITLES and CONTENTS ELECTRICAL SCIENCES Contains the following manuals Electrical Science Vol 1 Electrical Science Vol 2 Electrical Science Vol 3

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