



Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles¹

This standard is issued under the fixed designation D4718/D4718M; 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 approval. A superscript symbol (n) indicates an editorial change since the last revision or approval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope²

1.1 This practice presents a procedure for calculating the unit weights and water contents of soils containing oversize particles when the data are known for the soil fraction with the oversize particles removed.

1.2 This practice also can be used to calculate the unit weights and water contents of soil fractions when the data are known for the total soil sample containing oversize particles.

1.3 This practice is based on tests performed on soils and soil-rock mixtures in which the portion considered oversize is that fraction of the material retained on the 4.75-mm [No. 4] sieve. Based on these tests, this practice is applicable to soils and soil-rock mixtures in which up to 40 % of the material is retained on the 4.75-mm [No. 4] sieve. The practice also is considered valid when the oversize fraction is that portion retained on some other sieve, but the limiting percentage of oversize particles for which the correction is valid may be lower. However, the practice is considered valid for materials having up to 30 % oversize particles when the oversize fraction is that portion retained on the 10-mm [3/8-in.] sieve.

1.4 The factor controlling the maximum permissible percentage of oversize particles is whether interference between the oversize particles affects the unit weight of the finer fraction. For some gradations, this interference may begin to occur at lower percentages of oversize particles, so the limiting percentage must be lower for these materials to avoid inaccuracies in the computed correction. The person or agency using this practice shall determine whether a lower percentage is to be used.

1.5 This practice may be applied to soils with any percentage of oversize particles subject to the limitations given in 1.3 and 1.4. However, the correction may not be of practical significance for soils with only small percentages of oversize

particles. The person or agency specifying this practice shall specify a minimum percentage of oversize particles below which the practice need not be applied. If a minimum percentage is not specified, 5 % shall be used.

1.6 This practice may not be applicable to soil-rock mixtures which degrade under field compaction.

1.7 Units—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.

1.7.1 It is common practice in the engineering profession to concurrently use pounds to represent both a unit of mass (lbm) and a force (lbf). This implicitly combines two separate systems of units; that is, the absolute system and the gravitational system. It is scientifically undesirable to combine the use of two separate sets of inch-pound units within a single standard. This standard has been written using the gravitational system of units when dealing with the inch-pound system. In this system, the pound (lbf) represents a unit of force (weight). However, the use of balances or scales recording pounds of mass (lbm) or the recording of density in lbm/ft³ shall not be regarded as a non-conformance with this standard.

Note 1—Sieve size is identified by its standard designation in Specification D11. The alternative designation given in brackets is for information only and does not represent a different standard sieve size.

1.8 All observed and calculated values shall conform to the guidelines for significant digits and rounding established in Practice D6026.

1.8.1 The procedures used to specify how data are collected, recorded and calculated in this standard are regarded as the industry standard. In addition, they are representative of the significant digits that generally should be retained. The procedures used do not consider material variation, purpose for obtaining data, special purpose studies, or any considerations for the user's objectives; and it is common practice to increase or reduce significant digits of reported data to communicate with these considerations. It is beyond the scope of these test

¹ This practice is under the jurisdiction of ASTM Committee C05 on Soil and Rock and is the direct responsibility of Subcommittee D11.01 on Testing, Properties and Density Characteristics of Soils.

² Current edition approved Dec. 15, 2015. Published January 2016. Originally approved in 1987. Last previous edition approved in 2007 as D4718 - 07 (2007). DOI: 10.1520/D4718-15

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 Rehabilitation of Dams Barrages and Dams on Permeable Foundations Embankment Dams Concrete Faced Rockfill Dams
 Roller Compacted Concrete Dams Spillways and Streambed Protection Works Gates and Valves Environmental Aspects and
 Fish Facilities Hydroelectric Plants Pumped Storage Hydraulic Machinery and Regulation Hydraulic Transients Navigation
 Locks Irrigation Drainage Irrigation Structures Water Distribution and Treatment Wastewater Conveyance and Treatment
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 Standards ASTM.,2005 **American Society for Testing and Materials Special Technical Publication** ,1966
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Table of Contents Astm D 4718 Sdocuments

1. Understanding the eBook Astm D 4718 Sdocuments
 - The Rise of Digital Reading Astm D 4718 Sdocuments
 - Advantages of eBooks Over Traditional Books
2. Identifying Astm D 4718 Sdocuments
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astm D 4718 Sdocuments
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astm D 4718 Sdocuments
 - Personalized Recommendations
 - Astm D 4718 Sdocuments User Reviews and Ratings
 - Astm D 4718 Sdocuments and Bestseller Lists
5. Accessing Astm D 4718 Sdocuments Free and Paid eBooks
 - Astm D 4718 Sdocuments Public Domain eBooks
 - Astm D 4718 Sdocuments eBook Subscription Services
 - Astm D 4718 Sdocuments Budget-Friendly Options
6. Navigating Astm D 4718 Sdocuments eBook Formats

- ePub, PDF, MOBI, and More
- Astm D 4718 Sdocuments Compatibility with Devices
- Astm D 4718 Sdocuments Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astm D 4718 Sdocuments
 - Highlighting and Note-Taking Astm D 4718 Sdocuments
 - Interactive Elements Astm D 4718 Sdocuments
- 8. Staying Engaged with Astm D 4718 Sdocuments
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astm D 4718 Sdocuments
- 9. Balancing eBooks and Physical Books Astm D 4718 Sdocuments
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astm D 4718 Sdocuments
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Astm D 4718 Sdocuments
 - Setting Reading Goals Astm D 4718 Sdocuments
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Astm D 4718 Sdocuments
 - Fact-Checking eBook Content of Astm D 4718 Sdocuments
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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