



Designation: **D7181 – 11** **D7181 – 20**

## Standard Test Method for Consolidated Drained Triaxial Compression Test for Soils<sup>1</sup>

This standard is issued under the fixed designation D7181; 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 letter (a) indicates an editorial change since the last revision or approval.

### 1. Scope

1.1 This test method covers the determination of strength and stress-strain relationships of a cylindrical specimen of either intact or reconsolidated soil. Specimens are consolidated and sheared in compression with drainage at a constant rate of axial deformation (strain controlled).

1.2 This test method provides for the calculation of principal stresses and axial compression by measurement of axial load, axial deformation, and volumetric changes.

1.3 This test method provides data useful in determining strength and deformation properties such as Mohr strength envelopes. Generally, three specimens are tested at different effective consolidation stresses to define a strength envelope. The stresses should be specified by the engineer requesting the test. A test on a new specimen is required for each consolidation stress.

1.4 If this test method is used on cohesive soil, a test may take weeks to complete.

1.5 The determination of strength envelopes and the development of relationships to aid in interpreting and evaluating test results are beyond the scope of this test method and must be performed by a qualified, experienced professional.

1.6 All observed and calculated values shall conform to the guidelines for significant digits and rounding established in Practice **D6926**.

1.6.1 The methods/procedures used to specify how data are collected, calculated, or recorded 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 variations, purpose for obtaining the data, special purpose studies or any consideration of the end use for the user's objectives; and it is common practice to increase or reduce the significant digits of the reported data to be commensurate with these considerations. It is beyond the scope of this test method/standard to consider significant digits used in analysis methods for engineering design.

1.7 *Units*—The values stated in SI units are to be regarded as standard. The inch-pound units given in parentheses are mathematical conversions, which are provided for information purposes only and are not considered standard. Reporting of test results in units other than SI shall not be regarded as non-conformance with this test method.

1.7.1 The gravitational system of inch-pound units is used when dealing with inch-pound units. In this system, the pound (lbf) represents a unit of force (weight), while the unit for mass is slugs. The slug unit is not given, unless dynamic ( $F = ma$ ) calculations are involved.

1.7.2 It is common practice in the engineering/construction profession to concurrently use pounds to represent both a unit of mass (lbm) and of force (lbf). This implicitly combines two separate systems of units; that is, the absolute systems and the gravitational system. It is scientifically undesirable to combine the use of two separate sets of inch-pound units within a single standard. As stated, this standard includes the gravitational system of inch-pound units and does not use/represent the slug unit for mass. However, the use of balances or scales recording pounds of mass (lbm) or recording density in lbm/ft<sup>3</sup> shall not be regarded as non-conformance with this standard.

1.7.3 The terms density and unit weight are often used interchangeably. Density is mass per unit volume whereas unit weight is force per unit volume. In this standard density is given only in SI units. After the density has been determined, the unit weight is calculated in SI or inch-pound units, or both.

1.8 *This standard may involve hazardous materials, operations, and equipment. 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.*

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee D18 on Soil and Rock and is the direct responsibility of Subcommittee D18.09 on Strength and Compressibility of Soils.

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# Triaxial Test Astm D7181

**Hannele K. Zubeck, Tamra S. Kornfield**

## **Triaxial Test Astm D7181:**

Laboratory Tests for Unsaturated Soils Eng-Choon Leong, Martin Wijaya, 2023-02-16 The testing of unsaturated soils requires greater care and effort than that of saturated soils Although unsaturated soil mechanics has been embraced by geotechnical engineering engineering practice has not yet caught up as the characterization of unsaturated soils is difficult and time consuming and made harder still by a lack of standards Laboratory Tests for Unsaturated Soils collates test procedures to cover all laboratory tests for characterising unsaturated soils It covers the background theory test procedures and interpretation of test results Each test procedure is broken down into simple stages and described in detail The pitfalls of each test and the interpretation of the test results are explained Test data and calculation methods are given along with many numerical examples to illustrate the methods of interpretation and to offer the presentation of typical results The book is especially useful for students and researchers who are new to the field and provides a practical handbook for engineering applications

**Soil Strength and Slope Stability** J. Michael Duncan, Stephen G. Wright, Thomas L. Brandon, 2014-09-22 The definitive guide to the critical issue of slope stability and safety Soil Strength and Slope Stability Second Edition presents the latest thinking and techniques in the assessment of natural and man made slopes and the factors that cause them to survive or crumble Using clear concise language and practical examples the book explains the practical aspects of geotechnical engineering as applied to slopes and embankments The new second edition includes a thorough discussion on the use of analysis software providing the background to understand what the software is doing along with several methods of manual analysis that allow readers to verify software results The book also includes a new case study about Hurricane Katrina failures at 17th Street and London Avenue Canal plus additional case studies that frame the principles and techniques described Slope stability is a critical element of geotechnical engineering involved in virtually every civil engineering project especially highway development Soil Strength and Slope Stability fills the gap in industry literature by providing practical information on the subject without including extraneous theory that may distract from the application This balanced approach provides clear guidance for professionals in the field while remaining comprehensive enough for use as a graduate level text Topics include Mechanics of soil and limit equilibrium procedures Analyzing slope stability rapid drawdown and partial consolidation Safety reliability and stability analyses Reinforced slopes stabilization and repair The book also describes examples and causes of slope failure and stability conditions for analysis and includes an appendix of slope stability charts Given how vital slope stability is to public safety a comprehensive resource for analysis and practical action is a valuable tool Soil Strength and Slope Stability is the definitive guide to the subject proving useful both in the classroom and in the field

**Tailings Management Handbook** Kimberly Finke Morrison, 2022-02-01 As long as we have mining and mineral processing tailings and the responsible management thereof will remain at the forefront with a company's environmental social and governance ESG performance in part a reflection of how well tailings risks are being managed

The Global Industry Standard on Tailings Management GISTM was published in August 2020 aiming to prevent catastrophic failure of tailings facilities by providing operators with specified measures and approaches throughout the mine life cycle taking into account multiple stakeholder perspectives In 2021 the International Council on Mining Metals ICMM published the Tailings Management Good Practice Guide intended to support safe responsible management of tailings across the global mining industry providing guidance on good governance and engineering practices to support continual improvement in tailings storage facility TSF management and help foster and strengthen the safety culture of mining companies The Tailings Management Handbook is important and timely because there is no other comprehensive resource rooted in these new fundamentals and global principles for tailings management Tailings management requires interdisciplinary and cross functional understanding and support which is apparent throughout this handbook Dive into the wealth of information contributed by more than 100 world renowned experts beautifully crafted into a full color handbook that focuses on the basics life cycle planning site and tailings characterization TSF design and construction as well as systems and operations of TSFs The inclusion of 42 case studies is an added plus with real world successes and lessons learned Understanding and Reducing Landslide Disaster Risk Binod Tiwari, Kyoji Sassa, Peter T. Bobrowsky, Kaoru Takara, 2020-12-22 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the followings Five keynote lectures Recent development in physical modeling of landslides Recent development in numerical modeling of landslides Recent development in soil and rock testing techniques application and analysis methods Recent advancements in the methods of slope stability and deformation analyses Recent development in disaster risk assessment Prof Binod Tiwari is a Vice President of the International Consortium on Landslides ICL He is the Associate Vice President for research and sponsored project and Professor of civil and environmental engineering at the California State University Fullerton California USA Prof Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Peter Bobrowsky is the President of the International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa Canada Prof Kaoru Takara is the Executive Director of the International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University *Craig's Soil Mechanics* Jonathan Knappett, R.F. Craig, 2019-10-11 *Craig's Soil Mechanics* continues to evolve and remain the definitive text for civil engineering students worldwide It covers fundamental soil mechanics and its application in applied geotechnical engineering from A to Z and at the right depth for an undergraduate civil engineer with sufficient extension material for supporting MSc level courses and with practical examples and digital tools to make it a useful reference work for practising engineers This new edition now includes Restructured chapters on

foundations and earthworks the latter including new material on working platforms and collapse of underground cavities sinkhole formation New mobilised stress based deformation methods that can straightforwardly be used with both linear and non linear soil stiffness models and field measurements of shear wave velocity for serviceability limit state design Extended sets of correlations for making sensible first estimates of soil parameters adding deformation based parameters for broader coverage than the Eighth Edition Extended section on robust statistical selection of characteristic soil parameters Greater use of consolidation theory throughout in determining whether actions processes and laboratory in situ tests are drained or undrained Extended chapter on in situ testing adding the Flat Dilatometer Test DMT and interpretation of consolidation parameters from CPTU and DMT testing An updated section on pile load testing Additional worked examples and end of chapter problems covering new material with fully worked solutions for lecturers The electronic resources on the book s companion website are developed further with the addition of two new spreadsheet numerical analysis tools and improvement of existing tools from the Eighth Edition Using these readers can take real soil test data interpret its mechanical properties and apply these to a range of common geotechnical design problems at ultimate and serviceability limiting states

**Geotechnics for Sustainable Infrastructure Development** Phung Duc Long, Nguyen Tien Dung, 2019-11-28 This book presents 09 keynote and invited lectures and 177 technical papers from the 4th International Conference on Geotechnics for Sustainable Infrastructure Development held on 28 29 Nov 2019 in Hanoi Vietnam The papers come from 35 countries of the five different continents and are grouped in six conference themes 1 Deep Foundations 2 Tunnelling and Underground Spaces 3 Ground Improvement 4 Landslide and Erosion 5 Geotechnical Modelling and Monitoring and 6 Coastal Foundation Engineering The keynote lectures are devoted by Prof Harry Poulos Australia Prof Adam Bezuijen Belgium Prof Delwyn Fredlund Canada Prof Lidija Zdravkovic UK Prof Masaki Kitazume Japan and Prof Mark Randolph Australia Four invited lectures are given by Prof Charles Ng ISSMGE President Prof Eun Chul Shin ISSMGE Vice President for Asia Prof Norikazu Shimizu Japan and Dr Kenji Mori Japan

*Triaxial Testing of Frozen Soils--State of the Art* Hannele K. Zubeck, Tamra S. Kornfield, 2013 Mechanical properties of frozen soils are invaluable input parameters when designing building foundations or infrastructure in perennial frost areas Mechanical properties are also important for natural resource development in the north such as for mining and petroleum industry related projects One of these properties is the shear strength of frozen soil under varying temperatures and loading times If shear strength is estimated instead of measured risks for failure or overdesign exist Therefore it is important to accurately measure the strength of frozen soils Two main methods exist for measuring the shear strength of soils the direct shear test ASTM D3080 and the triaxial compression test ASTM D4767 ASTM D7181 and ASTM D2850 Although these tests are routinely used for unfrozen soils not much published information exists regarding their use for frozen soils Yet the industry needs this property for planning their operations in cold regions Therefore ASTM International Subcommittee D18 19 on Frozen Soils and Rock has started a

process of developing new standards for mechanical properties of frozen soils Of special interest is the dynamic triaxial testing of frozen soils The purpose of the study reported here was to collect information and practices for the current usage of triaxial testing for frozen soil under either static or dynamic loading conditions According to the results of the literature review researchers use various modified testing systems and sample configurations and unfortunately they do not always describe them fully So standardization of the testing method would be beneficial for creating comparable results between laboratories The measurement of small strains and deformations in dynamic tests was reported to be challenging A Split Hopkinson pressure bar is currently being developed as a means to overcome this problem Another challenge under investigation is the accuracy of the strain rate control The synthesized information can be used as a starting point in the development of a standard test method for the dynamic triaxial testing of frozen soils

Standard Test Method for Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils ASTM International,2020 *Standard Test Method for Unconsolidated-undrained Triaxial Compression Test on Cohesive Soils* ,2003 *Standard Test Method for Triaxial Shear Strength and Cohesion of Equine Sports Surfaces* , *Improved Isotropically Consolidated Undrained Triaxial Test Method for Non-Self-Supporting Materials* Wei Zhu,Rui Wang,Jia Zuo,Cheng Lin,Fanlu Min,2014 The non self supporting materials that are often encountered in practice include shield tunnel grout cement mortar mine tailings and dredged sludge These materials typically have characteristics of high moisture content and high flowability So far a complete mechanical process e g consolidation and shearing of the non self supporting materials has not been well characterized because the materials of high flowability cannot be tested directly in conventional triaxial test equipment This paper presents an improved triaxial test method capable of preparing the flowable specimens and testing them in a conventional triaxial apparatus The procedure includes 1 a flowable specimen prepared in the split mold and forced to be erective through a small confining pressure applied to the holes built in the split mold 2 the split mold was detached from the specimen using the specially designed components and remained in the triaxial cell and 3 the specimen was then subjected to the consolidation and shearing test The improved triaxial test method was used to test the shield tunnel grout dredged sludge and the dry sand in an isotropically consolidated undrained shear condition The test results indicated the improved triaxial method was used successfully to simulate the stress strain behavior of the non self supporting materials in a holistic manner

**An Evaluation of Three Triaxial Systems With Results From 0.1 to 100 MPa** Casey Brendan,John T. Germaine,2014 This paper evaluates the results of triaxial tests carried out over a very wide range of effective stresses using custom built triaxial systems specially developed for testing at low medium and high pressures These tests were performed on samples of resedimented Boston Blue Clay and good reproducibility is demonstrated across testing devices A novel approach was taken to evaluate the effect of apparatus compressibility of the drainage system on the measured undrained shear behavior as this issue becomes increasingly important for triaxial testing at high stresses The effect of apparatus compressibility on triaxial

shear results was evaluated by comparing the volume of pore fluid necessary to develop the drained strength of a specimen to the volume of flow caused by apparatus compressibility. This method is more illustrative and intuitive for undrained triaxial testing of saturated specimens than the traditional approach of using a specimen's  $B$  value. Triaxial test results show a consistent decrease in both undrained strength ratio and critical state friction angle over the effective stress range of 0.1 to 100 MPa for each overconsolidation ratio investigated. The conventional assumption made in soil models that fine grained soils exhibit constant normalized strength properties is therefore shown to be invalid when these properties are viewed over a significant range of effective stresses.

### **Stress Path Considerations in Multistage Triaxial Testing** MR.

Schoenemann, MR. Pyles, 1988. The particular sequence of axial load and confining stress change employed in a multistage triaxial test can dramatically influence the stress paths imposed on triaxial specimens as can isotropic and anisotropic consolidation. The cumulative radial strain in isotropically consolidated specimens can be as much as three times greater than that in anisotropically consolidated specimens at the end of the third stage of a test. Cumulative axial strain was about equal in isotropically and anisotropically consolidated specimens even though the isotropically consolidated specimens apparently experienced less total compressive strain by the end of a test. While increased strain did not appear to influence the results from multistage triaxial tests on relatively insensitive residual soils, the influence on test results for more sensitive soils may be significant.

### External Measurement of Axial Strain in the Triaxial Test LA. Bressani, 1995

The errors involved in measuring axial strains in the triaxial test are reviewed based on previously published results. A technique is described to allow more reliable external measurements to be obtained and used for strain calculations. The technique is simple, inexpensive, and can be implemented in any soils laboratory. Comparisons are made between the strains obtained by this method and those using local transducers connected to the specimen. Satisfactory results are obtained. Triaxial tests were made on specimens of an artificially bonded soil, Corinth marl, and remolded London clay. Errors involved in previous tests are explained and the bedding error is defined in a more precise way. In some tests, this error was eliminated due to a combination of factors such as soil grading, the finishing quality of the specimen surfaces, and the ratio of confining pressure to soil strength.

*The History and Theory of Triaxial Testing, and the Preparation of Realistic Test Specimens--A Report of the Triaxial Institute* V. A. Endersby, 1951. A brief review of the history of the development of the triaxial test for road work up to current practice is given together with a discussion of the stress forms in road pavements and the applicability of triaxial methods thereto. The nature of the Mohr diagram as an interpretation is given with mention of other methods of use and interpretation. The reasons for the formation of the Triaxial Institute are discussed and research on the fundamental problem of forming test specimens properly to represent materials as laid in pavements is described.

A Digital Image-Based Deformation Measurement System for Triaxial Tests A. R. Bhandari, W. Powrie, R. M. Harkness, 2012. This paper describes the development of a new digital image based deformation measurement system for triaxial tests on soils. Three digital cameras

placed on radii at intervals of 120 viewed on plan outside a transparent triaxial cell were used to capture images of a deforming cylindrical soil specimen at various instants A digital image correlation program was written to analyze the captured images using ray tracing to take account of image distortion due to refraction at the interfaces between the cell fluid the cell wall and the atmosphere The technique is validated with reference to a sand specimen tested in drained triaxial compression Typical implementations of the system to study surface deformation characteristics e g barreling onset of localization and shear band evolution of deforming soil specimens are illustrated

*Standard Test Method for Triaxial Compressive Strength of Undrained Rock Core Specimens Without Pore Pressure Measurements Withdrawn 2005* , **An Internal Instrumentation for Axial and Radial Strain Measurements in Triaxial Tests** P. Bésuelle, J. Desrues, 2001 A measuring device for axial and radial displacements in triaxial tests on soft rock specimens is described Developed to optimize the detection of strain localization the transducers have a linear response and a working range of a few percent After a presentation of the manufacture and properties detection of strain localization in the specimen during the compression test is discussed

**Multistage Triaxial Testing** SK. Gulhati, MRM Nambiar, GV. Rao, 1985 It is difficult to obtain enough undisturbed submarine samples from a particular location to carry out triaxial compression tests in the conventional manner using three samples at three different cell pressures Multistage triaxial tests offer an attractive means for determining shear strength parameters of submarine soils since they use only a single sample This paper presents a study through which a rational procedure for multistage undrained triaxial testing of submarine soils has been evolved

*Measurement of Axial Strains in Triaxial Tests on London Clay* LDM Costa Filho, 1985 Equipment for measuring axial strains directly on the center part of triaxial test specimens is described The accuracy to which axial strains can be computed using this equipment is determined The results of a series of tests on London clay provide a comparison between the axial strains computed using this equipment and conventional techniques It is concluded that bedding problems can introduce significant errors in the determination of deformation moduli at small strains for stiff clays

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