

**Plastic Limit Test (SL-07-001)**

SL-2120-09AAT-14, BS 1077-2, ASTM D-2013  
 Moisture content at which soil has smallest plasticity is called limit, but determination purpose plastic limit is defined as the water content at which a soil will just begin to crumble when rolled in to a thread of 3mm dia.

**Specifications:** The complete set consists of one each -  
 1 Glass plate 200mm x 125mm having round ends, 10 lines or stainless steel wire 3mm dia x 700mm long, 10 flexible spindle 13mm, 10 metal 10 milligram counter, 10 porcelain basin 100mm dia, 10 Plastic wash bottle 100ml.



SL-07-001

**Shrinkage Limit Test (SL-07-002)**

SL-2120-09AAT-14, ASTM D-297, BS 1077-2, ASTM D 2972  
 Shrinkage limit is the maximum water content at which a reduction in water content does not cause an appreciable reduction in volume of the soil mass. As shrinkage limit, no further reduction in water, as there is in the voids of soil and thus keeps the volume constant, the apparatus used for used to determine shrinkage limit and to calculate other shrinkage ratio, shrinkage index and volumetric shrinkage.

**Specifications:** set consists of one each -  
 1 Porcelain evaporating dish, 10 Shrinkage dish, 10 Glass vial of known plate with three metal prongs 40000 A.P.M. under 100mm, 10 Glycerol cylinder, 10 25ml x 1ml, 10 graduated without mercury.



SL-07-002

**Linear Shrinkage Mould (SL-07-003)**

SL-1077-2  
 A single mould which is filled with the soil under test. This is then dried and the resulting decrease length of the specimen measured in proportion to the linear shrinkage. It is 2.25mm dia. x 12.5mm height x 95.1077-2



SL-07-003

**Soil Cone Penetrometer (SL-07-004)**

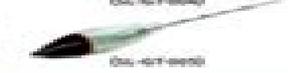
SL-2120-09AAT-14  
 For determining the liquid limit of soil. This is specially useful to obtain reliable and accurate results of those soil which have low plasticity index. The percentage moisture content, determined simultaneously with half angle for 15-30 minutes, under a total stress equal to 1 kg/cm<sup>2</sup>, gives the liquid limit.



SL-07-004

**Soil Hydrometer (SL-07-005)**

SL-2120-09AAT-14, BS 1077-2  
 Used for soil size analysis of soil which more than 10% of the material passes through 75 microns 0.25 mm. Manufactured from clear transparent glass having uniform clarity throughout the upper end an which density scale is engraved. The scale range is 0.999 to 1.025 g/cm<sup>3</sup> density (density at 20°C) smallest division on the scale is 0.0005.



SL-07-005

**Liquid Limit Device (SL-07-006)**

SL-2120-09AAT-14, BS 1077-2, ASTM D-2013  
 Casagrande method in mechanical form is known as liquid limit method and has been in use for soil resistance for a number of decades. The liquid limit data of soils is useful to correlate mechanical properties of soil with its compressibility and shear strength. Liquid limit is the water content at which soil passes from stiff strength for an infinite strength, hence the true value of liquid limit cannot be determined by the conventional purpose liquid limit. But water content at which a part of soil, cut by a grooved standard dimensions, will flow together for a distance of 1.0cm under an impact of 25 blows in a standard liquid limit apparatus. The part of soil for the entire range of water content which is about 0.175mm, 0.075 (opening size). An 18mm diameter hole is cut from liquid water to plastic state. It consists an above cup held on an adjustable bracket. The cup can be adjusted for a fall of 1 cm and can be raised an average rate of 1mm/sec. of constant height for 30 times. Complete with one Casagrande grooving tool, one ASTM grooving tool and height gauge block.



SL-07-006



SL-07-007

**Liquid Limit Device (with Counter) (SL-07-007)**

Same as above but fitted with a counter to register the number of blows.



SL-07-008

**Liquid Limit Device (Motorized) (SL-07-008)**

Same as above but fitted with a motor geared down to give approximately 120 rpm. Suitable for operation on 220V A.C., single phase, 50-Cycles.  
**FEATURES:** 1. Casagrande grooving tool, ASTM grooving tool, height block, height gauge.



SL-07-009

**Marsh Cone (SL-07-010)**

ASTM D-2419, ASTM D 1170  
 This cone is used to find out viscosity of bentonite slurry and similar material. The marsh cone is 6 inch in diameter at the top and 12 inch long, and tapers to 2 inch 2 inch long and 3/16 inch inside dia. The opening of the funnel is 100000. Time in seconds required to flow 100 cc of slurry from cone is measured as marsh viscosity of the material.



SL-07-010

**Mud Balance (SL-07-011)**

ASTM D-2419, ASTM D 1170  
 Designed to find out specific gravities of some liquids like mud and other liquids having densities in the range 0.8 to 2.5. It has a stainless steel frame calibrated specific gravities from 0.8 to 2.5. A stainless steel cup with lid and overflow is attached on one side of the beam. A counter weights with cursor slides over the graduated scale. The beam has a knife edge at center which rests on a fulcrum fixed in the stand. Levelling screws and spirit level are fixed on the stand.

**High Speed Stirrer (SL-07-012)**

SL-2120-09AAT-14  
 This is for mechanical analysis and also other laboratory applications for mixing. Speed approximately 4000 R.P.M. under 100mm. 4-6 speed range is supplied on a red on the stand of the stirrer and has a removable baffles. For operation on 220V A.C., supplied with dispersion cup or baffles cup.



SL-07-012

**Grain Size Analysis (Pipette Method) (SL-07-013)**

SL-2120-09AAT-14, ASTM D-153, BS 1077-2  
 This is for the determination of the soil size particle distribution in a soil sample by means of hydrometer analysis. An analysis of the soil requires quantity the proportions by weight of the various sizes of particles present in the soil. It is recommended as a standard procedure to use hydrometer agent to avoid fractionation. The apparatus consists of a glass pipette which is used to measure the volume of a known amount of sedimenting liquid to be used for liquid or known amount of sedimentation tube is held by a laboratory clamp provided on the stand below the pipette. The depth of immersion is measured by a scale in centimeter on the side of the sliding panel. Supplied complete with Anderson pipette 10ml. At the side capacity marked from glass, and a sedimentation tube also of glass of 500ml capacity and 50mm. Red Formers.



SL-07-013

**ACCESSORIES:** 1. Sedimentation Pipette (Anderson pipette) 10ml, 10 Sedimentation tube 500ml, 10 Sedimentation pipette 10ml, 10 Sedimentation tube 500ml, 10 Test form pad of 50

**Sand Equivalent Test Set (SL-07-014)**

ASTM D-2419, ASTM D 1170  
 Used to determine the relative proportions of claylike or Plastic fines and dust in granular soils. A fine aggregate consists of

1. Acrylic graduated cylinder (2 nos.)
2. Rubber stopper for cylinder (4 nos.)
3. Graduated test tube (500 mm)
4. Funnel 100mm diameter
5. Aggragate bottle 500ml capacity with rubber stop
6. Stand for the aggragate bottle with support assembly
7. Injection tube with stop pinch cock. 100mm height Test assembly



SL-07-014

**Motorized Sand Equivalent Shaker (SL-07-015)**

ASTM D-2419, ASTM D 1170  
 Sand equivalent tests serve as rapid field-correlation tests to show relative proportions of clay-like or plastic fines and dust in granular soils and fine aggregates. The test requires sand and clay, a comparison of the test results with the standard clay and the test set in the laboratory. The test set is used in the



SL-07-015

offer period of 30 minutes to increase settling and test of operation compared to a spring-type timer. It is recommended for samples in the laboratory.

The consistent, repeatable oscillation of the apparatus eliminates operator-induced variation. Shaking operation delivers an 8" Colson stroke at a speed of 1170 g's strokes per minute. Dimensions: 12.42 x 24.74 x 21.63 x 10.16 cm.

**Plummer Balance (SL-07-016)**

ASTM D-2419, ASTM D 1170  
 Conventionally particle size distribution analysis is carried out using pipette and hydrometer methods. whereas in hydrometer method it is possible to determine particle sizes in the range 0.0005mm, the method involves coarse sieve and it is slow procedure. The pipette method can be used for determining only the percentage of particles of height of the balance, so that plummer scale to the right depth is required. The percentage of soil in suspension is directly indicated by a pointer over a graduated scale. A vertical rod is mounted on a sliding base having a sliding weight. A pointer with sliding scale is provided bearing an immersion in graduated scale. Scale graduations are marked 0-100%, 0.2% to the other end of the pointer a plummer is tapered. Back and gain arrangement is provided on the vertical rod for adjusting the height of the sliding weight. A direct relation of relationship between "h" and temperature of suspension of soil of varying specific gravity from 2.4 to 2.8 for help in taking density irregularities. Supplied complete with one tapered plummer, one weight for adjusting the pointer to 100%.



SL-07-016

**Proctor Compaction Test Apparatus (SL-07-017)**

ASTM D-2922-10  
 Specification test compaction is of utmost requirement for constructing earth fill for dams, canal embankments, reservoirs, highways, runways and airfields. The relationship between soil moisture content and compaction is a primary consideration in the compaction specifications and quality control of compacted earthfills. To check the strength of the soil the density of the soil is taken into account and hence the quality control is checked.



SL-07-017

SL-07-017	Compaction should, complete with Collar and Base Plate	Compaction Capacity
1. Proctor Compaction Apparatus	200mm diameter Dia x 127.77mm height, 1000000 volume, 3000000 weight	2.0 kg x 0.1770mm tall
2. Moisture Content Apparatus	200mm diameter Dia x 127.77mm height, 1000000 volume, 3000000 weight	2.0 kg x 0.1770mm tall

# Soil Testing Lab Manual In Civil Engineering

**Braja Das**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle behind it.

## **Soil Testing Lab Manual In Civil Engineering:**

**A Laboratory Manual on Soil Mechanics** Ravi Kumar Sharma, 2016-10-22 A Laboratory Manual on Soil Mechanics Testing and Interpretation presents an illustrative treatment of the testing techniques of soils in the laboratory and field for determination of engineering properties Twenty four lab based experiments have been included on the various aspects of Soil Mechanics The testing procedure methodology and suitable data presentation tables are based upon relevant Indian standard specifications The data analysis shall make the students aware of techniques generally used for the determination of soil properties in the laboratory as well as in the field With its coverage the book is an indispensable lab manual for the civil engineering students and other allied areas like geotechnical engineering agricultural engineering etc It will also be a useful reference for scientists and researchers in the area of soil mechanics studies

**Soil Mechanics Laboratory Manual** Braja M. Das, 1997 Soil Mechanics Laboratory Manual Fifth Edition is designed for a laboratory course in soil mechanics also called geotechnical engineering that commonly accompanies a lecture course in the same subject The book is designed for junior level third year undergraduate courses in civil engineering departments and includes laboratory procedures essential to understanding the properties of soils and their behavior under stress and strain Features Includes sample calculations and graphs relevant to each laboratory test Supplies blank tables that accompany each test for laboratory use and report preparation Contains a new chapter on soil classification Chapter 9 Provides two useful appendices Appendix A Weight Volume Relationships Appendix B Data Sheets for Laboratory Experiments Offers a list of relevant references

**Manual of Soil Laboratory Testing** K. H. Head, 1992 This volume the first in a set of three is a vital working manual which covers the basic tests for the classification and compaction characteristics of engineering soils It will therefore be an essential practical handbook for all engaged on the testing of soils in a laboratory for building and civil engineering purposes Based on the author's experience over many years managing large soil testing laboratories particular emphasis has been placed on ensuring that procedures are fully understood Each test procedure has therefore been broken down into simple stages with each step being clearly described The use of flow diagrams and the setting out of test data and calculations will be of great benefit especially for the newcomer to soil testing The book is complemented with many numerical examples which illustrate the methods of calculation and graphical presentations of typical results The reporting of test data is also explained Vital information on good techniques laboratory safety the calibration of measuring instruments essential checks on equipment and laboratory accreditation are all included A basic knowledge of mathematics physics and chemistry is assumed but some of the fundamental principles that are essential in soil testing are explained where appropriate Professionals academics and students in geotechnical engineering consulting engineers geotechnical laboratory supervisors and technicians will all find this book of great value Book jacket

[Manual of Geotechnical Laboratory Soil Testing](#) Bashir Ahmed Mir, 2021-10-03 Manual of Geotechnical Laboratory Soil Testing covers the physical index and engineering properties of soils including

compaction characteristics optimum moisture content permeability coefficient of hydraulic conductivity compressibility characteristics and shear strength cohesion intercept and angle of internal friction Further this manual covers data collection analysis computations additional considerations sources of error precautionary measures and the presentation results along with well defined illustrations for each of the listed tests Each test is based on relevant standards with pertinent references broadly aimed at geotechnical design applications

**FEATURES** Provides fundamental coverage of elementary level laboratory characterization of soils Describes objectives basic concepts general understanding and appreciation of the geotechnical principles for determination of physical index and engineering properties of soil materials Presents the step by step procedures for various tests based on relevant standards Interprets soil analytical data and illustrates empirical relationship between various soil properties Includes observation data sheet and analysis results and discussions and applications of test results This manual is aimed at undergraduates senior undergraduates and researchers in geotechnical and civil engineering Prof Dr Bashir Ahmed Mir is among the senior faculty of the Civil Engineering Department of the National Institute of Technology Srinagar and has more than two decades of teaching experience Prof Mir has published more than 100 research papers in international journals and conferences chaired technical sessions in international conferences in India and throughout the world and provided consultancy services to more than 150 projects of national importance to various government and private agencies

**Soil Properties** Cheng Liu, Jack B. Evett, 2003 This geotechnical laboratory manual for civil engineering civil engineering technology and construction science students and professionals uses a simple direct style to explain each test procedure It offers guidelines on collecting and evaluating data as well as presenting the results properly Typical values are given for many of the tests to help students decide if their results are reasonable Some of the key features include Updated to conform to the very latest information from ASTM Definitions and objectives of tests are fully explained Step by step numerical calculations Engineering uses of the tests to show how the results are used in practical engineering applications A unique chapter presents a visual manual procedure for describing and identifying soils Coverage of the consolidated undrained CU triaxial test Photographs of various types of soil testing equipment Software included that allows the user to more easily analyze collected data

**Soil Mechanics Laboratory Manual** Braja Das, 2022 Soil Mechanics Laboratory Manual Tenth Edition is designed to get dirty This ideal complement to any Geotechnical Engineering and Soil Mechanics textbook is ring bound and flexi covered so students can have it on hand at the lab bench or in the field Content is organized around standard lab project workflow It includes more than twenty five lab projects that are closely aligned to current ASTM standards followed by data sheets for collecting field data and another set for preparing laboratory reports

**Manual of Soil Laboratory Testing, Soil Classification and Compaction Testing** K. H. Head, 1980-07-16

Laboratory Manual of Soil Testing Procedures William Stuart Housel, 1939 Manual of Soil Laboratory Testing K. H. Head, 1980 This volume the first in a set of three is a vital working manual which covers the basic tests for the classification

and compaction characteristics of engineering soils It will therefore be an essential practical handbook for all engaged on the testing of soils in a laboratory for building and civil engineering purposes Based on the author's experience over many years managing large soil testing laboratories particular emphasis has been placed on ensuring that procedures are fully understood Each test procedure has therefore been broken down into simple stages with each step being clearly described The use of flow diagrams and the setting out of test data and calculations will be of great benefit especially for the newcomer to soil testing

**Manual of Soil Laboratory Testing, Third Edition** K. H. Head, Roger Epps, 2011-09-16 This volume provides a comprehensive working manual for the laboratory testing of soils for civil engineers It is an essential practical handbook for all who are engaged in laboratory testing of soils as well as being of great value to professional engineers consultants academics and students in geotechnical engineering Revised and updated the contents reflect current practice in standard laboratory test procedures for determining some of the important engineering properties of soils The authors have had many years experience in managing large soil testing laboratories since the early 1950s through to the present day whilst actively contributing to the development of geotechnical testing through training courses lectures committees and working groups They recognise that it is particularly important for test methods to be fully understood and a step by step approach has therefore been used in presenting each section The test procedures comprise the measurement of soil permeability CBR value drained and undrained shear strength and consolidation characteristics Additional material in this new edition includes the Fall cone procedure for measurement of shear strength in clays based on the European Technical Specification a simplified direct approach and a useful arrangement for applying pressures in multistage triaxial tests to meet the requirements of BS1377 The latest requirements for calibration of equipment and measuring devices are presented and discussed together with the significance of quality assurance based on recognised laboratory accreditation to ISO IEC 17025 Descriptions of test methods are complemented by many numerical examples in order to illustrate the methods for recording test data making calculations presenting graphical plots and deriving test results Fundamental principles are explained where appropriate so that the operator can have a better understanding of the significance of the tests and guidance is given where experience has shown that difficulties may be encountered The importance of good techniques essential checks on test equipment and laboratory safety are all emphasised

*Applied Soil Mechanics* William Stuart Housel, 1950

*Applied Soil Mechanics* William S. Housel, 1957

**Soil Mechanics Lab Manual** Michael E. Kalinski, 2011-08-24 Soil Mechanics Lab Manual prepares readers to enter the field with a collection of the most common soil mechanics tests The procedures for all of these tests are written in accordance with applicable American Society for Testing and Materials ASTM standards Video demonstrations for each experiment available on the website prepare readers before going into the lab so they know what to expect and will be able to complete the tests with more confidence and efficiency Laboratory exercises and data sheets for each test are included in the Soil Mechanics Lab Manual

*Soil Testing Manual*

Robert W. Day, 2001 The essential tool for geotechnical and soil engineering fieldwork Written by AIA award winning civil engineer Robert Day Soil Testing Manual gives engineers geologists contractors on site construction managers anyone who needs answers on the characteristics of soil a convenient complete source of today s most authoritative solutions This reader friendly guide simplifies each step of every process from selecting appropriate methods to analyzing your results Filled with handy tables charts diagrams and formulas that eliminate time wasting and frustrating searches and calculations this manual gives you better results in less time as you Get expert approaches to testing altered and disturbed soils Set up a mobile field lab with complete directions Use rip out sheets for on site reference and checks Get quick access to data on grading instrumentation technical methods procedure guidelines and preferred practices Draw authoritative conclusions on fill compaction Measure cohesiveness shear strength settlement permeability and other critical parameters Construct a subsoil profile

**Manual of Soil Laboratory Testing** K. H. Head, Roger Epps, 2011 **Manual of Soil Laboratory Testing**, 2008 Annotation This is the second volume of three that provides a comprehensive working manual for the laboratory testing of soils for civil engineering purposes It is an essential practical handbook for all who are engaged in laboratory testing of soils as well as being of great value to professional engineers consultants academics and students in geotechnical engineering The contents have been revised and updated to reflect current practice in standard laboratory test procedures for determining some of the important engineering properties of soils The authors have had many years experience in managing large soil testing laboratories since the early 1950s through to the present day whilst actively contributing to the development of geotechnical testing through training courses lectures committees and working groups They recognise that it is particularly important for test methods to be fully understood and a step by step approach has therefore been used in presenting each section The test procedures comprise the measurement of soil permeability CBR value drained and undrained shear strength and consolidation characteristics Additional material in this new edition includes the Fall cone procedure for measurement of shear strength in clays based on the European Technical Specification a simplified direct approach and a useful arrangement for applying pressures in multistage triaxial tests to meet the requirements of BS1377 The latest requirements for calibration of equipment and measuring devices are presented and discussed together with the significance of quality assurance based on recognised laboratory accreditation to ISO IEC 17025 Descriptions of test methods are complemented by many numerical examples in order to illustrate the methods for recording test data making calculations presenting graphical plots and deriving test results Fundamental principles are explained where appropriate so that the operator can have a better understanding of the significance of the tests and guidance is given where experience has shown that difficulties may be encountered The importance of good techniques essential checks on test equipment and laboratory safety are all emphasised

*Soil Technicians' Handbook* K. H. Head, 1996-03-01 A concise and accessible compilation of the data required to perform tests on soils for civil engineering purposes Covers soil tests normally used by commercial testing

laboratories in the construction industry Convenient size for field use Soil Mechanics Lab Manual Michael E. Kalinski,2006-02-20 It is critical to quantify the various properties of soil in order to predict how it will behave under field loading for the safe design of soil structures Quantification of these properties is performed using standardized laboratory tests This lab manual prepares readers to enter the field with a collection of the most common of these soil mechanics tests The procedures for all of these tests are written in accordance with applicable American Society for Testing and Materials ASTM standards **Soil Testing Laboratory Manual** Ming Xiao,2021-07-30 Technical Publication ,1980

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