

Plastic Limit Test (SL-07-001)

SL-2120-09AAT-VL, BS-1077-2, ASTM D-2030
 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 100mm having round ends, 10 brass or stainless steel rod 3mm dia x 700mm long, 10 flexible spindle 13mm, 10 metal 10 milligram counter, 10 porcelain basin 100mm dia, 10 Plastic wash bottle 100mm.



SL-07-001

Shrinkage Limit Test (SL-07-002)

SL-2120-09AAT-VL, ASTM D-422, BS-1077, AASHTO T 98
 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, 10 brass plate with three metal prongs 4000 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)

BS-1077-2
 A single mould which is filled with the soil under test. This is then dried and the resulting decrease in length of the specimen measured in proportion to the linear shrinkage. It is 2.25mm dia. x 12.5mm height x 100mm length.



SL-07-003

Soil Cone Penetrometer (SL-07-004)

SL-2120-09AAT-VL
 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/cm², gives the liquid limit.



SL-07-004

Soil Hydrometer (SL-07-005)

ASTM D-2479, 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/cm³ density (equivalent to 2% to 25% water content on the scale is 0.0005).



SL-07-005

Liquid Limit Device (SL-07-006)

SL-2120-09AAT-VL, BS-1077-2, ASTM D-2030
 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 1.75cm 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, is 17.75mm (0.7 in). An 18mm diameter hole is cut from liquid state to plastic state. It consists of above cup held on an adjustable bracket. The cup can be adjusted for a fall of 1 cm and can be raised at varying rate and distance of standard height for a fall. 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. Adjustable grooving tool. ASTM grooving tool, height block, height gauge.



SL-07-009

Marsh Cone (SL-07-009)

ASTM D-2479, AASHTO T 179
 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 1000cc. Time in seconds required to flow out 1000cc of slurry from cone is measured as liquid viscosity of the material.



SL-07-009

Mud Balance (SL-07-010)

ASTM D-2479, AASHTO T 178
 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 to the stand.



SL-07-010

SOIL

High Speed Stirrer (SL-07-011)

SL-2120-09AAT-VL
 This is for mechanical analysis and also other laboratory applications for mixing. Speed approximately 4000 R.P.M. under 100W. An aluminium cup is supplied on a rest on the stand of the stirrer and has a removable baffles. The operation on 220V A.C., supplied with dispersion cup or baffles cup.



SL-07-011

Grain Size Analysis (Pipette Method) (SL-07-012)

SL-2120-09AAT-VL, AASHTO T 200
 This is for the determination of the soil size particle distribution in a soil sample by means of analysis. An analysis of 75 microns (0.25 mm) quantity the proportions by weight of the various sizes of particles present in the soil. It is recommended as a standard procedure to use dispersion agent to avoid flocculation. The apparatus consists of a glass pipette which is used to draw the suspension of a known amount of soil in water. The pipette is held in a laboratory clamp provided on the stand below the pipette. The depth of immersion is measured by a scale in millimeter on the side of the glass pipette. 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 ferrous chloride.



SL-07-012

ACCESSORIES: 1. 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-07-013)

ASTM D-2479, AASHTO T 176
 Used to determine the relative proportions of claylike or Plastic fines and dust in granular soils. A five aggregate consists of:
 1. Acrylic graduated cylinder (4 nos.)
 2. Rubber stopper for cylinder (4 nos.)
 3. Graduated test tube (500 mm)
 4. Funnel 100mm diameter
 5. Aggregates bottle 5 lit capacity with rubber stop
 6. Stand for the aggregate bottle with support assembly
 7. Injection tube with stop pinch cock. 8. Weighing boat assembly



SL-07-013

Motorized Sand Equivalent Shaker (SL-07-014)

ASTM D-2479, AASHTO T 176
 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 separates sand and clay, a comparison is then made between the suspended clay and the sediment that is the same as the residue that can be used in the



offer point of 10 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" (203mm) stroke at 1/4" (6.35mm) at 1700 cycles per minute. Dimensions: 12.4" x 24" x 21" (315 x 610 x 533mm).

Plummet Balance (SL-07-015)

ASTM D-2479, AASHTO T 176
 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 10microns, the method involves coarse sieve and it is slow procedure. The pipette method can be used for determining only the percentage of passing of height of the balance, so that plummet ends 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 on movement on a graduated scale. Scale graduations are marked 0-100%, 0.1% to the other end of the pointer a plummet is attached. Back and front arrangement is provided on the vertical rod for adjusting the height of the plummet with a coarse screw. A relationship between "h" and temperature of suspension of soil of varying specific gravity from 2.4 to 2.8 for help in taking density adjustment. Supplied complete with one tapered plummet, one weight for adjusting the pointer to 100%.



SL-07-015

Proctor Compaction Test Apparatus (SL-07-016)

ASTM D-2922-02
 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 design consideration. To check the strength of the soil the density of the soil is taken into account and hence the quality control is checked.



SL-07-016

SL-07-010	Compaction Shaker, complete with Collar and Base Plate	Compaction Shaker
1. Proctor Compaction Shaker	200mm diameter Dia x 1.177 Meter Height, 100000cc volume, 300W Power	2.8 kg x 0.770mm tall
1. Proctor Collar	200mm diameter Dia x 1.177 Meter Height, 100000cc volume, 300W Power	2.8 kg x 0.770mm tall

Soil Testing Lab Manual In Civil Engineering

M Lipman



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