

PLASTIC LIMIT SET

The determination of the plastic limit for soils is a very simple procedure. The soil that is to be tested has its moisture content adjusted to a certain point. Then a portion of the adjusted sample is taken and formed into an ellipsoidal mass and rolled into a thread, on a glass plate, until it is approximately 3.2 mm in diameter and

then the process is repeated until the soil can no longer be rolled into threads. The soil is then collected and the moisture content determined and that is the plastic limit. The set consists of a glass plate, an evaporating dish, moisture boxes, graduated cylinder, and a spatula.



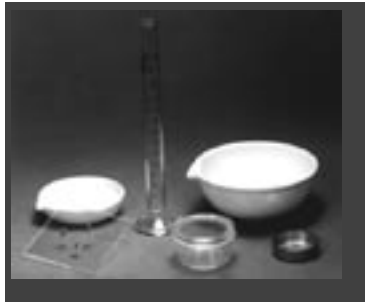
| MODELS | DESCRIPTION | STANDARDS |
|--------|-------------------|---------------------------|
| S1506S | PLASTIC LIMIT SET | ASTM D-4318 / AASHTO T-90 |

| ACCESSORIES | DESCRIPTION |
|-------------|--------------------------------------|
| L1642 | BOX, ALUMINUM W/ LID 2" X 1", 12 PKG |
| L2403 | GRADUATED CYLINDER, GLASS, 25 ML |
| L2524 | EVAPORATING DISH, PORCELAIN, 250 ML |
| L2853 | GLASS PLATE, 12" X 12" X 3/8" |
| L3512 | SPATULA, FLEXIBLE ST. STL. BLADE, 4" |

SHRINKAGE LIMIT SET

Soils passing through a #40 sieve are mixed with water and then placed in a shrinkage dish, struck off, weighed and oven dried, again weighed and the original moisture percent calculated. The

volume is determined by immersing the dry pat in mercury and measuring the volume displaced. The shrinkage limit and ratio, volumetric change and linear shrinkage are computed by formula.



| MODELS | DESCRIPTION | STANDARDS |
|--------|---------------------|-------------------------------------|
| S1835S | SHRINKAGE LIMIT SET | ASTM D-427 / AASHTO T-92 BS 1377 |

| ACCESSORIES | DESCRIPTION |
|-------------|------------------------------------|
| S1821 | PORCELAIN SHRINKAGE DISH |
| S1822 | MONEL METAL SHRINKAGE DISH |
| S1823 | PORCELAIN OVERFLOW DISH |
| S1825 | SHRINKAGE PLATE, W/ 3 PRONGS |
| S1828 | VOLUME CUP, W/ GROUND RIM |
| S1841 | SHRINKAGE MOLD, LINEAR, 6-UNIT |
| L2403 | GRADUATED GLASS CYLINDER, 25 ML |
| L2524 | PORCELAIN EVAPORATING DISH, 115 MM |

SPEEDY MOISTURE TESTER

The Speedy Moisture Tester is a simple and accurate device used to determine the free moisture content of soils. To operate the tester you simply weigh off a sample on the balance provided, then place the sample in the cap of the instrument, then with the calcium carbide reagent in the body, seal and shake. The reagent reacts with the moisture in the sample and produces a gas which in turn creates pressure in the canister. The pressure created is in direct correlation to the moisture present in the sample. The pressure is then read on the instruments calibrated gauge which reads in increments of 0.2% percent moisture. Accuracy is within 0.5%. The tester is furnished with a scale, a wooden carrying case, cleaning cloth, brush, and a measuring scoop. Reagent (S1965) and calibration kit (S1963) are also available from Hogentogler.



| MODELS | DESCRIPTION | STANDARDS |
|--------|------------------------------|-----------------------------|
| S1961 | SPEEDY MOISTURE TESTER, 6 G | ASTM D-4944 AASHTO T-217 |
| S1962 | SPEEDY MOISTURE TESTER, 20 G | |

| ACCESSORIES | DESCRIPTION |
|-------------|--------------------------------------|
| S1962A | EXTRA 10 G WEIGHT |
| S1962B | EXTRA GAUGE, 20 G |
| S1963 | CALIBRATION KIT (CASE) FOR ALL SIZES |
| S1965 | REAGENT, 24/1 LB CANS |