SOIL > ATTERBERG LIMITS

SHRINKAGE LIMIT TEST SET

Code : T037



- The Shrinkage Limit Test Set is used to determine the shrinkage limit of fine-grained soils, which is the maximum moisture content at which a reduction in water content does not result in a decrease in soil volume. This parameter is critical for soil classification and assessing the potential for volume changes due to moisture variations.
- The test involves drying a saturated soil pat in a shrinkage dish and measuring its volume before and after drying. The shrinkage limit is calculated based on the volume change and moisture loss, providing insights into the soil's behavior during drying.
- The apparatus includes a crystallizing dish for mercury displacement to determine the dry volume of the soil pat, a shrinkage dish for molding the soil sample, a prong plate for volume measurement, an evaporating dish for drying, a measuring cylinder for volume measurements, and a spatula for sample preparation.
- Compliant with international standards, the Shrinkage Limit Test Set ensures accurate and repeatable results, making it suitable for geotechnical laboratories and field testing.

- When used alongside the Liquid Limit and Plastic Limit Tests, this set facilitates the determination of the Atterberg limits, which are essential for evaluating soil consistency and workability.

STANDARDS

ASTM D427 • AASHTO T92 • BS 1377:2

TECHNICAL SPECIFICATIONS

- Evaporating dish: Ø 125 mm
- Spatula: 100 mm
- Shrinkage dish: ~ Ø 44 x 12 mm (2 pcs)
- Crystallizing dish: Ø 55 x 35 mm
- Shrinkage prong plate: Transparent acrylic with 3 metal prongs
- Measuring cylinder: 25 ml

ORDERING INFORMATION

Item Name	Item Code
CRYSTALLIZING CUP (Ø 57 x 31 mm)	T037P001H
SHRINKAGE DISH (Ø 44 x 12 mm)	T037P002H
SHRINKAGE PRONG PLATE	T037P003H
CARRYING CASE for T037	T037P004H
SHRINKAGE LIMIT SET	T037X00XH