Shrinkage Limit Test Set

LT-S0040 | Shrinkage limit determination of fine-grained soils

Shrinkage glass plate • Moisture tins • Preparation tools



LT-S0040

SHRINKAGE LIMIT TEST SET

1.5 kg

APPROXIMATE SET WEIGHT

Drying behaviour of fine-grained cohesive soils

LT-S0040

Photographs and Set Components

Shrinkage glass plate, moisture tins, cylinder and preparation tools

The LT-S0040 is a test set for determining the shrinkage limit of fine-grained cohesive soils. Water loss and specimen volume change during drying are evaluated together.

GRADUATED CYLINDER

The 25 ml glass cylinder supports liquid volume measurement during test preparation.

SHRINKAGE GLASS PLATE

The glass plate with three metal prongs is a component of the volume determination arrangement.

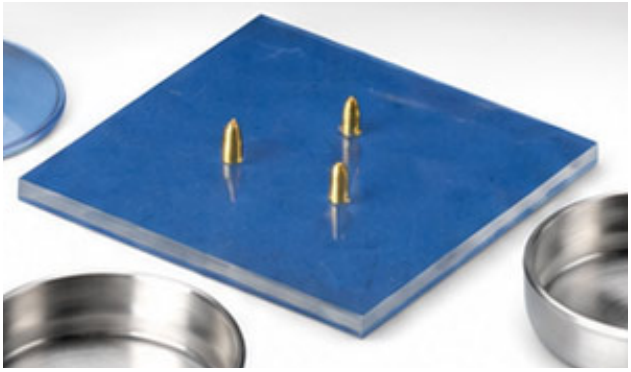


DISH AND SPATULA

A Ø120 mm porcelain dish and 150 mm flexible spatula support specimen preparation.

MOISTURE TINS

Covered aluminium tins support specimen weighing and moisture-content procedures.



Shrinkage glass plate with three metal prongs



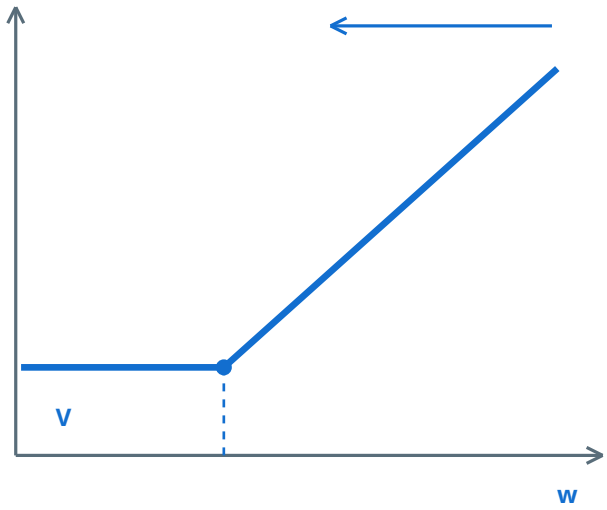
Porcelain preparation dish and flexible spatula

LT-S0040

Water Loss and Volume Change

Prepare • Weigh and measure • Dry • Determine shrinkage limit

VOLUME BEHAVIOUR DURING DRYING



SHRINKAGE LIMIT

FURTHER WATER LOSS: CONSTANT VOLUME

Observe volume change as moisture content decreases

Evaluate mass and volume records together

REPRESENTATIVE BEHAVIOUR DIAGRAM • NOT TO SCALE

Prepare the Specimen

Prepare soil according to the selected method. Record tin and specimen identification.

Measure Mass and Volume

Determine the required mass and volume values for the wet and dry specimen.

Calculate the Limit

Evaluate moisture content and volume records using the applicable calculation method.

Shrinkage limit is the moisture content below which further water loss causes no additional reduction in specimen volume. Determining this boundary supports evaluation of the drying behaviour of cohesive soil and its classification.

Mass and Volume Records

Record tin identification, tin mass and the required initial measurements during specimen preparation. Carry out drying and volume determination according to the selected test method.

Use a suitable laboratory balance and drying equipment for the measurements. Preserve specimen integrity and link all records to the same specimen identification.

Evaluation of Results

Shrinkage limit describes the relationship between soil moisture content and volume change. Additional values such as shrinkage ratio and volumetric shrinkage may be evaluated according to the method and measurements taken.

The LT-S0041 mould can be selected separately for linear shrinkage work. Report results together with specimen identification and the method used.

Technical Specifications and Set Contents

LT-S0040 | Evaluation of shrinkage limit and drying behaviour

Technical Specification	Value / Description
Product Code	LT-S0040
Test Purpose	Shrinkage limit of fine-grained soils
Graduated Cylinder	25 ml • Glass
External Dimensions / Weight	340 × 290 × 80 mm • Approximately 1.5 kg
Related Product	LT-S0041 • Linear shrinkage mould (separate)

Component Code	Description
LT-S0040/1	Shrinkage glass plate • Three metal prongs
LT-G0152	Covered aluminium tin • Ø55 × 35 mm
LT-G0153	Covered aluminium tin • Ø45 × 10 mm
LT-G0716	Porcelain dish • Ø120 mm
LT-G0311	Flexible spatula • 150 mm
LT-G0415	Glass graduated cylinder • 25 ml

Record Mass, Volume and Moisture Content Together

Record specimen and tin identification, weighing values and volume measurements. Determine and report shrinkage limit using the calculation specified by the selected test method.

Shrinkage Limit Test Workflow

01
Prepare
Prepare the specimen and test containers.

02
Measure
Record initial mass and volume values.

03
Dry
Dry and complete measurements using the method.

04
Calculate
Determine shrinkage limit and report results.

Product Page | liyatest.com.tr/en/urun/shrinkage-limit-test-set/