Linear Shrinkage Mould

LT-S0041 | Specimen length change during drying

140 mm specimen length • 12.5 mm radius • Compact mould



140 mm

APPROXIMATE SPECIMEN LENGTH

12.5 mm

MOULD RADIUS

BS 1377-2 • Linear shrinkage testing of soils

LT-S0041

Photographs and Mould Geometry

Longitudinal specimen bed and closed ends

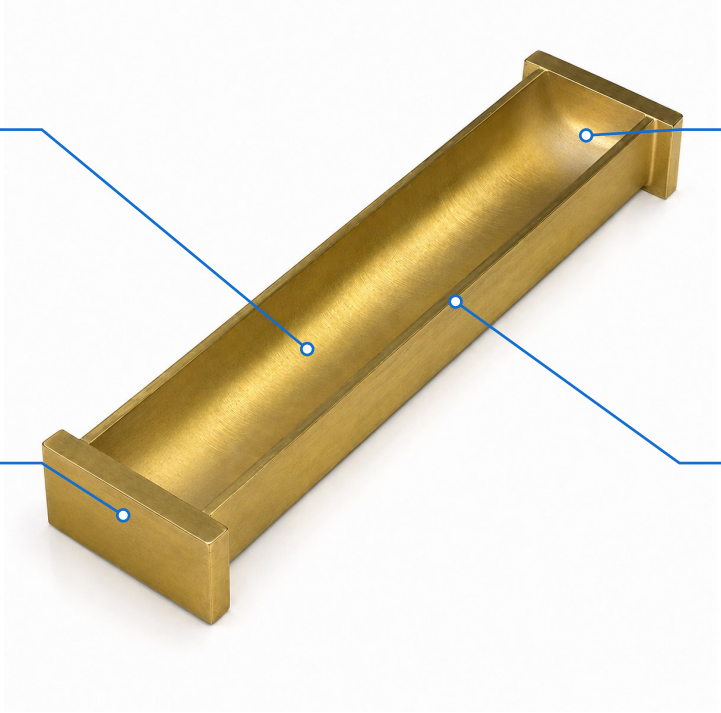
The LT-S0041 is used to evaluate the reduction in fine-grained soil specimen length caused by drying. Its defined geometry provides an initial length for comparison with the dried specimen.

SPECIMEN BED

Prepared soil is distributed uniformly along the mould.

RADIUS

The 12.5 mm radius section defines the specimen preparation geometry.



END FACES

The closed ends define the limits of the initial specimen length.

SPECIMEN LENGTH

The approximately 140 mm specimen length provides a reference for the final measurement.



Specimen bed and end face detail



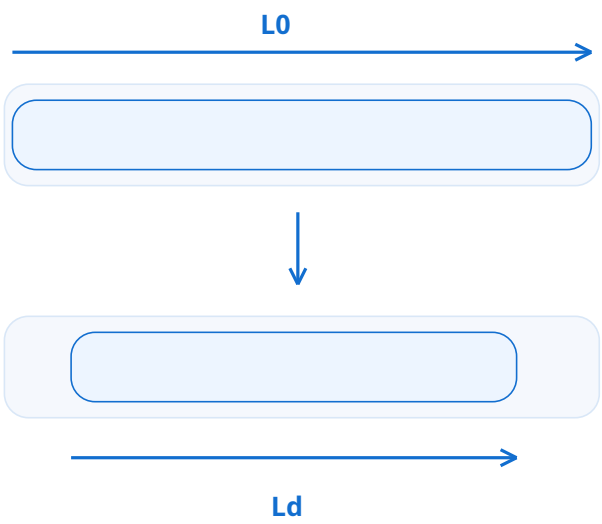
Longitudinal channel and section geometry

LT-S0041

Evaluation of Length Change

Fill • Level • Dry • Measure the final length

INITIAL AND DRIED SPECIMEN LENGTH



L0: INITIAL SPECIMEN LENGTH

Ld: DRIED SPECIMEN LENGTH

Compare length reduction with the initial length

Linear shrinkage (%) = 100 × (L0 - Ld) / L0

REPRESENTATIVE LENGTH COMPARISON • NOT TO SCALE

Place the Specimen

Fill the mould with prepared soil. Distribute evenly and level the surface.

Controlled Drying

Carry out drying according to the selected test method.

Compare Lengths

Measure the dried specimen length and evaluate it against the initial length.

Linear shrinkage is the reduction in specimen length during drying expressed as a percentage of the original length. Use the same unit for both measurements. Report the calculation and observations about specimen condition together with the method used.

Specimen Preparation

Keep the internal mould surface clean. Prepare soil at the consistency required by the method and distribute it along the mould. Level the surface while preserving specimen arrangement and initial length.

Record specimen identification and test conditions. Apply consistent preparation and drying procedures for repeated tests.

Measurement and Records

Determine the final dried specimen length with a suitable length measuring instrument. Record any cracking, fragmentation or curling and apply the evaluation rules of the selected method.

Use suitable laboratory equipment for drying and length measurement. Link the result to specimen identification and measurement records.

LT-S0041

Technical Specifications and Test Workflow

LT-S0041 | Evaluation of linear shrinkage in soils

Technical Specification	Value / Description
Product Code	LT-S0041
Product Name	Linear Shrinkage Mould
Test Type	Linear shrinkage
Specimen Length	Approximately 140 mm
Mould Radius	12.5 mm
External Dimensions	20 × 30 × 160 mm
Approximate Weight	0.3 kg
Standard Reference	BS 1377-2
Product Group	Soil classification
Related Product Family	LT-S0040 • Shrinkage Limit Test Set

Use the Same Unit for Initial and Final Length

Record specimen identification, initial length and dried length. Calculate linear shrinkage according to the selected method and include specimen condition observations in the report.

Linear Shrinkage Test Workflow

01
Prepare
Prepare the mould and soil specimen.

02
Fill
Place the specimen and level its surface.

03
Dry
Dry according to the selected method.

04
Measure
Measure final length and calculate shrinkage.

Product Page | liyatest.com.tr/en/urun/linear-shrinkage-mould/