Le Chatelier Test Set

LT-CE0062 / LT-CE0063 | Mould and complete test set

Split metal mould • Indicator arms • Glass plates and measuring accessories



Ø30 × 30 mm

MOULD INTERNAL DIAMETER AND HEIGHT

150 mm

INDICATOR ARM LENGTH

EN 196-3 • EN 450-1 • EN 459-2 • ISO 9597

LT-CE0062 / LT-CE0063

Photograph and Test Components

Mould with indicator arms, glass plates, steel ruler and check weight

The set determines specimen expansion in the Le Chatelier method through changes in indicator tip distance. The split cylindrical mould transfers movement to the arms. Glass plates and measuring accessories complete specimen preparation.

INDICATOR ARMS

Transfer mould movement to the tips. Record initial and final tip distances using the same arrangement.

MOULD BODY

The split metal cylinder holds the paste sample. Check cleanliness and mechanical suitability.



GLASS PLATES

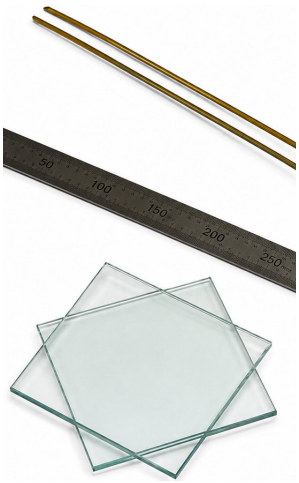
Bound the lower and upper surfaces. Complete specimen positioning with clean plates when filling the mould.

STEEL RULER

Used for distance between indicator tips. Record readings with the sample identification.



Split mould body and indicator arm connections

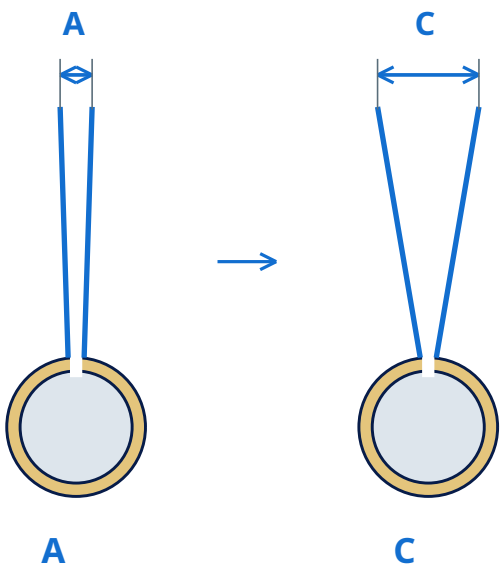


Indicator tips and glass plates

From Indicator Distance to Expansion

Prepare the specimen • Condition and heat • Calculate the distance change

MOULD TOP VIEW • INITIAL AND FINAL TIP DISTANCE



$\Delta = C - A$

A: INITIAL DISTANCE • C: AFTER HEATING AND COOLING

INDICATOR DISTANCE CHANGE: Δ = C - A

RESULT: mm • MOVEMENT EXAGGERATED • NOT TO SCALE

Prepare and Take Initial Distance

Place paste in the mould. Complete initial conditioning; record A at the first measurement stage defined by the method.

Heat and Cool

Subject the mould to the method boiling sequence in a suitable water bath. Cool under the specified conditions.

Compare Final Distance

Measure tip distance C. Calculate C - A in millimetres and report with the test method.

The measurement is the change in distance between indicator tips. Do not interpret it directly as percentage specimen volume increase. Mould elasticity, paste preparation and conditioning affect test repeatability.

Mould and Accessory Selection

LT-CE0062 is the single mould option. The LT-CE0063 complete set includes 3 moulds, glass plates, weights, a tamping rod, steel ruler and carrying case.

Mould internal diameter and height are 30 mm; indicator arms are 150 mm long. Glass plates measure 50 × 50 mm.

Checks Before Testing

Check the mould slit, indicator arms and elasticity. Follow EN 196-3 or ISO 9597 for paste preparation, initial conditioning, boiling and cooling.

Use a suitable water bath for the thermal stage. Record initial and final distances with sample identification and test conditions.

Product Options and Set Contents

LT-CE0062 mould • LT-CE0063 complete set and accessory data

Product Code	Product	Description
LT-CE0062	Le Chatelier Mould	Single mould
LT-CE0063	Le Chatelier Test Set	Complete set with 3 moulds

Set / Component	Technical Information
Mould Geometry	Internal diameter 30 mm; height 30 mm
Indicator Arms	150 mm
Glass Plates	50 × 50 mm
Weights	1 × 300 g and 3 × 100 g
Tamping Rod	Ø17 mm; approximately 70 g
Measuring Accessory	Steel ruler
Storage	Carrying case
Complete Set Size / Weight	340 × 290 × 80 mm; 2 kg

Tip Distance, Mould Checks and Test Records

Use the same arrangement for initial and final distances. Check mould elasticity and arms; record sample identification and thermal conditions.

From Cement Paste to Expansion Result

01
Prepare
Fill the mould and position glass plates.

02
Initial Read
Take distance A after initial conditioning.

03
Heat / Cool
Apply water bath and cooling sequence.

04
Compare
Measure C and report the C - A difference.

Product Page | liyatest.com.tr/en/urun/le-chatelier-test-set/