Flow Cone Set

LT-CE0047 | Efflux time determination by the cone method

Stainless steel cone • Interchangeable nozzle • Metal stand



Ø10 mm

STANDARD NOZZLE DIAMETER

10 kg

SET WEIGHT

EN 445 • Evaluation of efflux time in seconds

LT-CE0047

Photograph and Set Components

Flow cone, nozzles, stand and receiving container

LT-CE0047 is used to evaluate discharge time of fluid grouts and injection materials through a cone. The stainless steel cone, interchangeable nozzle and metal stand form the measuring arrangement.

FLOW CONE

The stainless steel body guides the specimen to the outlet. Clean the internal surface before testing.

CONE SUPPORT

The stand connection holds the cone upright. Check stability and securing points before testing.



NOZZLE OPTIONS

Removable nozzles define the outlet diameter. Use the same diameter for comparable tests.

RECEIVING CONTAINER

The container below the outlet collects discharged material. Position it without obstructing flow.



Stainless steel cone and stand connection detail

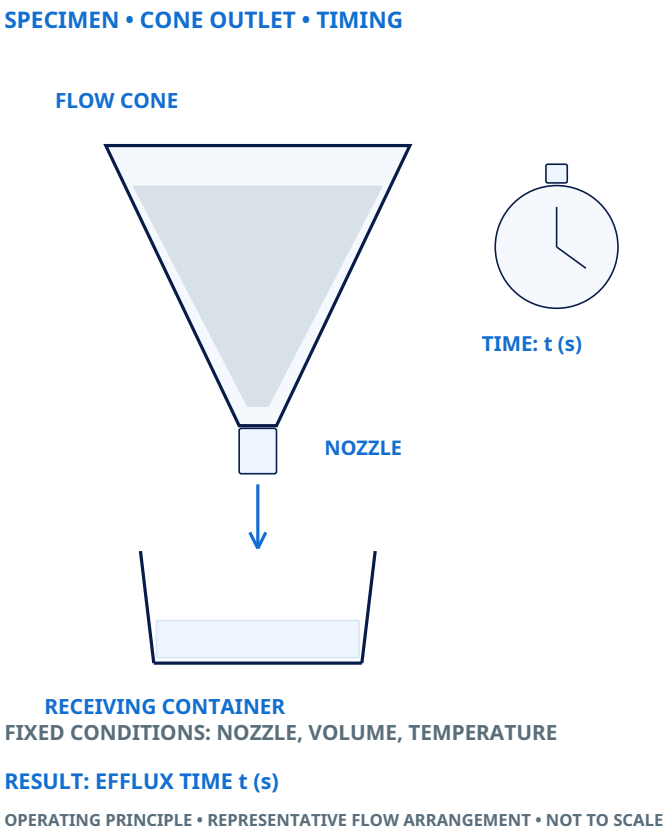


Photograph detail of outlet nozzles

LT-CE0047

From Cone Discharge to Efflux Time

Prepare the setup • Start discharge • Record the time



Prepare Setup and Specimen

Secure the cone upright. Fit the nozzle required by the method, close the outlet and fill to the specified level.

Start Discharge and Timing

Start the stopwatch as the outlet opens. Check that material discharges freely into the receiving container.

Record Time and Conditions

Stop timing at the method endpoint. Record seconds together with nozzle and specimen details.

Efflux time is the time needed for the specified specimen quantity to discharge through the selected nozzle. Matching nozzle diameter, volume and preparation conditions supports comparison between mixes. Avoid disturbing the cone during discharge.

Match Test Conditions

Determine specimen quantity, filling level and timing endpoint according to the selected method. Where sieving is required, prepare the specimen under the method's sieving conditions.

Record nozzle diameter and specimen temperature. Do not compare times from different outlets as if they were obtained under identical conditions. Clean the cone and outlet after each measurement.

EN 445 and Cone Testing

EN 445 covers test methods for grout used with prestressing tendons. Apply the cone, specimen volume and timing requirements of the selected fluidity procedure.

ASTM C939/C939M measures discharge time of a specified grout volume through a standardized flow cone. When applying a method, match cone geometry, outlet diameter and receiving volume to that procedure.

LT-CE0047

Technical Specifications and Test Control

LT-CE0047 • Flow cone set

Specification	Technical Information
Product Code	LT-CE0047
Test Purpose	Efflux time determination of flowable materials
Specimen Applications	Grouts and injection materials
Cone Material	Stainless steel
Standard Nozzle	Ø10 mm
Nozzle Design	Interchangeable and removable
Support Arrangement	Rigid metal stand
Sieve Opening	1.5 mm
Receiving Arrangement	Plastic beaker
External Dimensions	250 × 250 × 600 mm
Weight	10 kg
Primary Standard	EN 445

Cleanliness, Stability and Time Recording

Keep the cone upright and stable; clear residue from the nozzle. Match timing start and endpoint to the method. Record efflux time with nozzle diameter and specimen details.

From Specimen to Efflux Time Result

01
Set Up
Check stand stability and nozzle connection.

02
Fill
Close the outlet and fill as prescribed.

03
Start
Start timing as the outlet opens.

04
Record
Record time at the method endpoint.

Product Page | liyatest.com.tr/en/urun/flow-cone-set/