# Methylene Blue Test Set

LT-A0075 | Methylene blue value (MB) of fine aggregates

400/600 rpm agitator • 50 ml burette • Spot-test consumables




## 400 / 600 rpm

AGITATOR SPEED OPTIONS

## 2000 ml

HANDLED PLASTIC BEAKER

EN 933-9 • Methylene blue assessment of the 0/2 mm aggregate fraction

LT-A0075

# Photograph and Test Set Components

Agitator, burette arrangement, specimen vessel and consumables

LT-A0075 supports controlled methylene blue addition to an aggregate suspension and filter-paper spot testing. The agitator maintains consistent contact between the solution and fine particles.

**HIGH-SPEED AGITATOR**

LT-A0076 mixes the suspension with 400 and 600 rpm speed options.

**BURETTE ARRANGEMENT**

A 50 ml glass burette and mounting equipment support controlled solution addition.




**SPECIMEN VESSEL**

The supplied 2000 ml beaker is used for mixing the specimen and water.

**TEST CONSUMABLES**

Methylene blue, kaolinite and filter paper support preparation and spot checks.



**Agitator motor, control and mixing shaft**



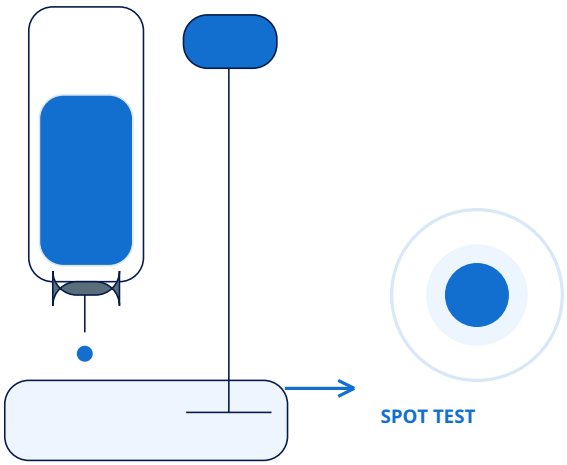

**Reagent containers and filter-paper pack**

LT-A0075

# Controlled Addition and Spot Testing

Prepare specimen • Agitate • Add solution • Check the spot

BURETTE + SUSPENSION + FILTER PAPER




ADD SOLUTION IN A CONTROLLED MANNER

AGITATION • ADSORPTION • SPOT CHECK

MB: METHYLENE BLUE VALUE

Record solution consumption and dry specimen mass

REPRESENTATIVE ASSEMBLY AND SPOT • NOT TO SCALE

## Prepare the Suspension

Prepare the 0/2 mm test fraction. Select specimen and water quantities by the method.

## Agitate and Add

Use the required mixing speed. Add solution from the burette in the specified increments.

## Check the Spot

Transfer a drop to filter paper. Check the endpoint and confirmation period by the method.

Active fine particles adsorb methylene blue. After solution addition, a drop of suspension is checked on filter paper. A pale blue halo around the spot indicates an endpoint that must be confirmed by the method. Solution consumption and dry specimen mass are used to calculate MB.

## Specimen and Solution Checks

EN 933-9 covers MB of the 0/2 mm fraction of fine or all-in aggregates. Annex A provides the MBF test for the 0/0.125 mm fraction.

Apply solution concentration, preparation and kaolinite checks by the relevant procedure. Consumable pack quantities do not define the specimen or solution amount used for a test.

## Endpoint and Test Records

Record each addition, total solution volume and spot check. Keep agitation conditions and filter-paper arrangement consistent.

Under the same method, higher MB may indicate more or more active adsorptive fines. Assess the result against the aggregate specification. Clean the burette, beaker and mixing shaft after testing.

LT-A0075

# Technical Specifications and Set Contents

LT-A0075 • Power supply, agitation, titration and consumables

| Technical Specification | Value / Description |
|---|---|
| **Product Code** | LT-A0075 |
| **Overall Dimensions** | 500 × 870 × 270 mm |
| **Approximate Weight** | 15 kg |
| **Power Supply** | 240 V, 50-60 Hz, 1 phase |
| **LT-A0076 Agitator Speeds** | 400 / 600 rpm |

| Component Code | Component / Quantity |
|---|---|
| **LT-A0075/1, /2, /3** | Burette holder, stand and clamp |
| **LT-G0542** | Glass burette • 50 ml |
| **LT-G0523** | Handled plastic beaker • 2000 ml |
| **LT-G0113** | Glass stirring rod • 8 × 300 mm |
| **LT-A0077** | Methylene blue powder • 100 g |
| **LT-G0735** | Kaolinite • 500 g |
| **LT-A0078** | Filter paper • Ø125 mm, 100 pcs |

## Assess Fines Using Consistent Method Conditions

Select the applicable conditions in EN 933-9, NF P 94-068, UNE 83 180 and UNI 8520-15. Apply specimen fraction, solution preparation and endpoint checks under one consistent method.

## From Specimen to Methylene Blue Value

**01**
**Prepare**
Prepare the specimen and working solution.

**02**
**Agitate**
Select speed by the method and mix the suspension.

**03**
**Add / Check**
Add solution and monitor the filter-paper spot.

**04**
**Calculate**
Record consumption and calculate MB by the method.

**Product Page | liyatest.com.tr/en/urun/methylene-blue-test-set/**