



**AGGREGATE  
PRODUCT BROCHURE**

**METHYLENE BLUE  
TEST SET**

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**AG1340**



## PRODUCT MODEL

AG1340	Methylene Blue Test Set, 220-240 V 50-60 Hz
AG1340/01	High Speed Agitator Motor, 400/600 r.p.m
AG1340/02	Stirring Propeller, Ø 70 mm 4 flanks
AG1340/03	Filter Paper, 1 pack (100 pcs.), 125 mm dia, 95 g/m2, 0.20 mm thickness
AG1340/04	Methylene Blue, 100 g
AG1340/05	Kaolinite, 500 g
G075/02	Glass Burette, 50 ml x 0.1 ml
G140/02	Burette Holder and Stand
G015/3000	Plastic Beaker, 3000 ml
G070/06	Glass Rod, Ø 8x300 mm



## PRODUCT STANDARDS

Standards	EN 933-9   NF P94-068   UNE 83 180   UNI 8520-15
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## DESCRIPTION

The Methylene Blue Test of fine aggregate is a measure of the amount of potentially harmful fine material present such as clay and organic material. Material passing the No. 200 (75µm) sieve is maintained in dispersion with distilled water by mixing with the Magnetic Stirring Hot Plate. Methylene Blue solution is titrated into the stirred dispersion in increments until a drop of the mixture on filter paper shows a blue ring indicating that the sample can absorb no more reagent.

The MBV is simply a measure of the amount of reagent absorbed and is proportional to the amount of clay or organic material present. Methylene Blue Reagent solution is light sensitive. The solution shelf life is 4-6 months maximum, when stored in a dark cabinet in foil-wrapped amber bottles.

### Methylene blue test set is supplied with;

- High Speed Agitator Motor, 400/600 r.p.m
- Stirring Propeller, Ø 70 mm 4 flanks
- Filter Paper, 1 pack (100 pcs.), 125 mm dia, 95 g/m2, 0.20 mm thickness
- Methylene Blue, 100 g

- Kaolinite, 500 g
- Glass Burette, 50 ml x 0.1 ml
- Burette Holder and Stand
- Plastic Beaker, 3000 ml
- Glass Rod, Ø 8x300 mm

## How to Do the Methylene Blue Experiment:

In order to carry out the experiment, first of all, a methylene blue solution must be prepared.

**Step 1-)** To prepare methylene blue solution, 10 g of methylene blue powder is added to 1000 g of distilled water. It is mixed for 45 minutes at 600 rpm. The prepared solution is kept for 24 hours. The solution must be used within 28 days.

**Step 2-)** Prepare 200 g aggregate mixture passing through a 2 mm (No. 10) sieve.

**Step 3-)** The prepared aggregate mixture is added to 500 g distilled water and mixed at 600 rpm for 45 minutes.

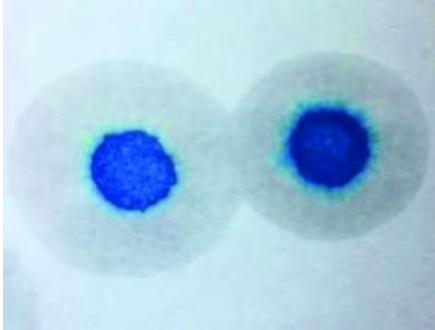
**Step 4-)** 5 ml of methylene blue solution is added to the obtained aggregate-water mixture. It is mixed for 1 minute at 400 rpm.

**Step 5-)** The glass baguette is dipped into the resulting mixture and a drop is dropped onto the filter paper.

**Step 6-)** 5 ml of methylene blue solution is added to the suspension containing the same aggregate-water-methylene blue solution and mixed for 1 minute at 400 rpm.

**Step 7-)** Again, the glass baguette is dipped into the resulting mixture and a drop is dropped onto the filter paper.

**Step 8-)** Steps 4 and 5 are repeated until the halo image with dark blue center is observed on the filter paper as in Figure 1.



**Step 9-)** When the experiment is finished, the amount of methylene blue (MB) is calculated with the following formula.

$$MB = V1/M1*10$$

V1: Amount of methylene blue used (ml)

M1: Aggregate amount (g)

## TECHNICAL SPECIFICATIONS

Dimensions	270x590x600 mm
Weight (approx)	16 kg

## THANK YOU

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## CONTACT US



Ağaç Metal Sanayi Sitesi 1354 Cadde  
1436 Sokak No:16 İvogsan Yenimahalle -  
ANKARA / TÜRKİYE



info@testmak.com  
marketing@testmak.com



TÜRKİYE / HEAD Office : +90 312 395 44 57  
UKRAINE Office : +380 63 741 29 20  
SOUTH AMERICA / Cuba Office : +53 5 073 96 12



www.testmak.com