

DETERMINATION OF STRIPPING VALUE OF AGGREGATES

STANDARD

- IS: 6241-1971.

DEFINITION

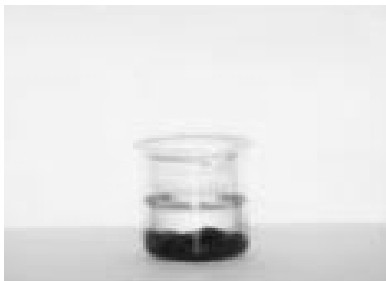
- The stripping value of aggregates is determined as the ratio of the uncovered area observed visually to the total area of aggregates, expressed as a percentage.

APPARATUS

- Heat resistant glass beaker of 500 ml capacity.
- 20mm and 12.5mm IS sieves.
- Mixer.
- Balance of capacity 10Kg and sensitivity 1gram.
- Water bath preferably with a thermostat.

PROCEDURE

- Take 200 grams of dry and clean aggregates passing 20mm and retained on 12.5mm sieves and heat up to 150⁰C.
- Take five percent by weight of bitumen binder and heat up to 160⁰C.
- Mix the aggregates and the binder till they are completely coated and transfer the mixture in to a 500ml beaker and allow to cool at room temperature for about 2 hours.
- Add distilled water to immerse the coated aggregates.
- Cover the beaker and keep in a water bath maintained at 40⁰C taking care that the level of water in the water bath is at least half the height of the beaker.



Bitumen coated aggregates
kept in distilled water



Aggregates kept out side for
observation of stripping of bitumen coating

- After 24hours take the beaker out, cool at room temperature and estimate the extent of stripping visually while the specimen is still under the water.

REPORT

- Express the stripping value as the ratio of the uncovered area observed visually to the total area of aggregates in each test.
- Report the mean of three results as stripping value of the tested aggregates to the nearest whole number.

PRECAUTION

- Care shall be taken while mixing aggregates with bitumen.

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FORM D36

Punjab State Road Sector Project
PWD B&R Branch, Govt. of Punjab
 Punjab Roads & Bridges Development Board

DETERMINATION OF STRIPPING VALUE OF AGGREGATES
 (IS 6241)

Source/Location : _____ Size of Lot : _____
 Material : _____ Date of Sampling : _____
 Size of Sample : _____ Date of Testing : _____

Determination No.			
Type of Aggregate			
Type of Binder			
% Binder Used			
Total Weight of Aggregates			
Total Weight of Binder			
Temperature of Water Bath, °C			
Stripping Value, %			
Mean Stripping Value, %			

Remarks : _____

Approved /Not Approved:

Contractor's Representative

Materials Engineer
Consultant

Resident Engineer
Consultant