



TEX-101-E, PART 3

Sieve Analysis of Road-Mix Stabilized Material



Why

This procedure applies to chemically stabilized materials sampled from the roadway during construction. These materials may be tested in the roadway condition for adequate mixing and reclamation is achieved.



When

Only road-mixed applications

- Item 260
- Item 265
- Item 275
- Special Spec. 3088
- Special Spec. 3089
- Special Spec. 3095



How

Equipment

- Sample splitter
- Scoops
- Metal pans
- Drying oven
- Set of sieves



Procedure

- Select a representative sample from the roadway according to Tex-100-E.
- Reduce the sample, using a sample splitter or other approved method to a minimum of 10 lb.
- Weigh and record the total sample to the nearest 0.1 lb.
- Use the specified sieve sizes.
- Agitate the set of sieves using a mechanical sieve shaker for 5 minutes, or manually by hand.
 - Hand-sieve for about 1 minute, using both lateral and vertical motions with a jarring action to ensure the material continuously moves over the surface of the sieve.
 - Continue hand-sieving until less than 1% of the test sample by weight passes through the sieve.
- Weigh and record sample passing each sieve to the nearest 0.1 lb.

 **QUICK FACTS: SB 101 DRAFT** **Action****Calculation**

- Use the following equation to determine the percent passing for each sieve size:

$$Percent\ Passing = 100 \times \left(\frac{W_{Passing}}{W_{Total}} \right)$$

Where:

$W_{Passing}$ = Weight of material passing the sieve

W_{Total} = Total weight of the sample

Report

- Report to the nearest whole number.