

**IA Checklist  
 OHD L-48  
 METHOD OF TEST FOR  
 DETERMINING PERCENT DUST COATING OF COVER AGGREGATES  
 FOR BITUMINOUS SURFACE TREATMENTS**

| <b>Procedure:</b> |   | <b>P</b> | <b>F</b> | <b>NA</b> |
|-------------------|---|----------|----------|-----------|
| 1                 | Sample the aggregate in accordance with R 90.   |          |          |           |
| 2                 | Thoroughly mix the sample and reduce it to an amount suitable for testing using the applicable procedures described in R 76. The sample for test shall be approximately of the mass desired when dry and shall be the end result of the reduction. Reduction to an exact predetermined mass shall not be permitted. |          |          |           |
| 3                 | The mass of the test sample shall conform with Table 1 on page 2.   |          |          |           |
| 4                 | Dry the sample to a constant mass at a temperature of 230 ± 9°F (110 ± 5°C).  |          |          |           |
| 5                 | Allow the sample to cool to room temperature.   |          |          |           |
| 6                 | Shake the sample over a No. 8 (2.36 mm) sieve and discard the fraction passing the No. 8 (2.36 mm) sieve. Agitate the sieve for a sufficient period to separate the plus and minus No. 8 (2.36 mm) size fraction, but not so great as to create additional fines through degradation of the coarse particles.       |          |          |           |
| 7                 | Prevent an overload of the sieve by one of the methods described in T 27.   |          |          |           |
| 8                 | Determine the mass of the sample to the nearest 0.1 g   |          |          |           |
| 9                 | Wash the sample as described in T 11, Procedure A - Washing With Plain Water, making sure to return all material retained on the wash sieves to the sample.   |          |          |           |
| 10                | Dry the washed aggregate to a constant mass at a temperature of 230 ± 9°F (110 ± 5°C).  |          |          |           |
| 11                | Allow the sample to cool to room temperature.   |          |          |           |
| 12                | Determine the mass of the washed sample to the nearest 0.1 g  |          |          |           |
| 13                | Perform Calculations as shown below. (Calculations)   |          |          |           |
| 14                | Report the percent dust coating to the nearest 0.1 percent.   |          |          |           |

**Table 1**

| Nominal Maximum Size Aggregate, (in) | Min. Mass of Test Sample (g) |
|--------------------------------------|------------------------------|
| 3/8                                  | 1000                         |
| 1/2                                  | 2000                         |

**Note** - The nominal maximum size of aggregate as defined in AASHTO T 2

**Calculations**

Calculate the percent dust coating as follows:

$$A = [(B - C) / B] \times 100$$

Where: A = percent dust coating

B = dry mass of sample before washing, g; and

C = dry mass of sample after washing, g.

**Remarks:**