

**STATE OF OHIO
DEPARTMENT OF TRANSPORTATION**

**SUPPLEMENT 1017
METHOD OF TEST FOR CLAY
LUMPS IN AGGREGATE**

August 15, 1995

1017.01 Scope. This method of test covers the procedure for detecting and determining the amount of clay lumps in aggregates.

1017.02 Apparatus. Balance or scale sensitive to within 0.1 percent of the weight of the sample to be weighed.

1017.03 Procedure.

1. When lumps or agglomerations of fine material are found in aggregate, a sample weighing not less than 5000 g shall be obtained by quartering, and dried to constant weight at a temperature not exceeding 110°C (230°F).
2. The sample shall be allowed to cool to approximately room temperature, and an attempt made to break or reduce each lump or agglomeration of fine material with the fingers. Unbroken lumps, and fragments of lumps broken with extreme difficulty shall be removed from the sample and regarded as clay lumps.

1017.04 Calculation. Calculate the percentage of clay lumps to the nearest 0.1 percent, as follows:

$$L = \frac{W - R}{W} \times 100$$

where:

L = percentage of clay lumps,

W = weight of dried sample, and

R = weight of dried sample after removal of clay lumps.