

**OHD L-18
METHOD OF TEST FOR
PERCENTAGE OF CRUSHED PARTICLES**

- I. **SCOPE.** This method of test covers the test procedures for determining the percent by weight, of crushed particles in aggregates to be used in highway construction and maintenance.
- II. **APPARATUS.** The apparatus shall consist of the following:
- A. **Balance.** A balance having a capacity of 3,000 grams and sensitive to 1.0 gram.
- B. **Sieves.** Sieves conforming to the Standard Specifications for Sieves for Testing Purposes (AASHTO M 92).
- III. **SAMPLES.** A portion of a representative sample shall be obtained by quartering or the use of a riffle splitter. This portion shall be sieved over a Number 4 sieve. The test sample shall consist of the material retained on the Number 4 sieve (Note). The minimum size of the test sample shall be 1,000 grams.
- NOTE:** Coated aggregate should be washed to facilitate detection of unfractured particles.
- IV. **PROCEDURE.** The test sample shall be spread out on a work table using enough area so that the individual particles may be closely inspected. Separate the particles having the required number of fractured faces. The particles having fractured faces shall be weighed and the weight recorded as weight of crushed particles.
- V. **CALCULATIONS.** The percent of crushed particles shall be calculated as follows:

$$\% \text{ Crushed Particles} = \frac{\text{Weight of Crushed Particles}}{\text{Weight of Total Test Sample}} \times 100$$

The results, to the nearest whole number, are reported as percent of crushed particles.