Method of Test For
DETERMINATION OF PERCENTAGE OF CRUSHED PARTICLES FOR COARSE AGGREGATES

DOTD Designation: TR 306

This method is intended to determine the percentage of single face or double face crushed particles for coarse aggregate in stockpiles or in asphaltic mixture.

DOTD TR 306 is identical to ASTM D5821 except for the following provisions:

A. Section 2, Reference Documents is amended to include:

DOTD TR 309 – Mechanical Analysis of Extracted Aggregate
DOTD TR 323 – Asphalt Content of Asphaltic Mixtures by the Ignition Method
AASHTO R 76 – Reducing Samples of Aggregates to Testing Size

B. Section 3, Terminology, Section 3.1.1.1, Discussion is replaced with the following:

3.1.1.1 Discussion – for this standard, a single face crushed particle is one which has one or more fractured faces, and the whole fractured face or faces is at least 25% of the total surface area of the particle as determined by visual inspection. A double face crushed particle is one which has two or more fractured faces and the whole of the fractured faces is at least 50% of the total surface area of the particle as determined by visual inspection.

C. Section 6, Sampling is replaced with the following:

6.1 Obtain one full sack of crushed aggregate from the stockpile or sample asphalt loose mixture using appropriate DOTD methods.

D. Section 7, Sample Preparation, Section 7.1 and 7.2 are replaced with the following:

7.1 For stockpile samples, obtain a representative test specimen of the aggregate sample of approximately 1200g in accordance with AASHTO R 76.

7.2 For loose mixture samples, extract the entire aggregate portion from the loose mixture sample in accordance with DOTD TR 323. Obtain the test specimen by retaining all of the plus 4.75 mm (No. 4) aggregate from performing the extracted aggregate gradation analysis in accordance with DOTD TR 309.

Normal Test Reporting Time is 4 hours.