

**LOUISIANA  
 DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
 SPECIFICATIONS**

**AGGREGATE FOR ASPHALT SURFACE TREATMENT**

**DESCRIPTION:** This aggregate is for use in asphalt surface treatment applications, sometimes referred to as chip seals.

**GENERAL REQUIREMENTS:** Aggregate shall be crushed gravel, crushed stone, or lightweight aggregate from the Approved Materials List and comply with Subsection 1003.01 of the 2016 Louisiana Standard Specifications for Roads and Bridges.

**SPECIFIC REQUIREMENTS:** Crushed gravel Size 1 and Size 2 shall have 60 percent minimum crushed retained on the No. 4 (4.75 mm) sieve. Crushed gravel Size 3 shall have 75 percent crushed retained on the No. 4 (4.75 mm) sieve. Determine the percent crushed in accordance with DOTD TR 306.

Comply with the following gradation:

**Asphaltic Surface Treatment Aggregates Percent Passing**

|             |                    | Size 1                               |  | Size 2                     | Size 3                     |
|-------------|--------------------|--------------------------------------|--|----------------------------|----------------------------|
| U. S. Sieve | Metric Sieve       | Slag or Stone Aggregate (Size No. 5) | Crushed Gravel <sup>2</sup> or Lightweight Aggregate | All Aggregate (Size No. 7) | All Aggregate (Size No. 8) |
| 1 1/2 inch  | 37.5 mm            | 100                                  | 100  | ---                        | ---                        |
| 1 inch      | 25.0 mm            | 90-100                               | 95-100   | ---                        | ---                        |
| 3/4 inch    | 19.0 mm            | 20-55                                | 60-90  | 100                        | ---                        |
| 1/2 inch    | 12.5 mm            | 0-10                                 | ---  | 90-100                     | 100                        |
| 3/8 inch    | 9.5 mm             | 0-5                                  | 0-15   | 40- 80                     | 85-100                     |
| No. 4       | 4.75 mm            | ---                                  | 0-5  | 0-15                       | 10-40                      |
| No. 8       | 2.36 mm            | ---                                  | ---  | 0-5                        | 0-10                       |
| No. 16      | 1.18 μm            | ---                                  | ---  | ---                        | 0-5                        |
| No. 200     | 75 μm <sup>1</sup> | 0-1                                  | 0-1  | 0-1                        | 0-1                        |

<sup>1</sup> The percentage passing the No. 200 (75 μm) sieve shall be 0 - 2 percent for crushed aggregates when the materials finer than the No. 200 (75 μm) sieve consist of dust fraction from crushing and handling, essentially free of clay.

<sup>2</sup> Uncrushed gravel may be used for Size 1 aggregate if more than one application of Asphaltic Surface Treatment is required.

**SAMPLING:** Sampling will be in accordance with the Materials Sampling Manual.