



**SECTION 1003**

**AGGREGATE FOR SEAL COATS**

**1003.1 Scope.** This specification covers aggregate to be used for seal coat.

**1003.2 Aggregate.** Aggregate for seal coats shall consist of sound durable rock particles, free from objectionable coatings.

**1003.2.1** When tested in accordance with AASHTO T 96, the percentage of wear shall not exceed 50 percent. The sum of the percentages of all deleterious substances shall not exceed 2.0 percent for Grade A aggregate, 4.0 percent for Grade B or 8.0 percent for Grade C aggregate, and the aggregate shall meet the following criteria:

| <b>Property</b>  | <b>Grade A Aggregate</b> | <b>Grade B Aggregate</b> | <b>Grade C Aggregate</b> |
|--|--------------------------|--------------------------|--------------------------|
| Deleterious rock, percent by weight (mass), max                        | 2.0                      | 4.0                      | 8.0                      |
| Shale, percent by weight (mass), max                                   | 0.5                      | 0.75                     | 1.0                      |
| Other foreign material, percent by weight (mass), max                  | 0.5                      | 0.5                      | 0.5                      |
| Two fractured faces, percent, min                                      | 100                      | 100                      | 100                      |
| Thin, elongated particles, ASTM D 4791, 5:1, percent, max <sup>a</sup> | 10                       | N/A                      | N/A                      |
| Micro-Deval, AASHTO TP 58, percent, max                                | 18                       | N/A                      | N/A                      |

<sup>a</sup>Test material retained on the 4.75mm (No. 4) sieve.

**1003.2.2** The aggregate shall be in accordance with the following requirements for the grade specified in the contract:

|                    | <b>Grade A Aggregate</b>                | <b>Grade B Aggregate</b>                | <b>Grade C Aggregate</b>                |
|--------------------|---|---|---|
| <b>Sieve Size</b>  | <b>Percent Passing by Weight (Mass)</b> | <b>Percent Passing by Weight (Mass)</b> | <b>Percent Passing by Weight (Mass)</b> |
| 1/2"<br>(12.5 mm)  | 100                                     | 100                                     | 100                                     |
| 3/8"<br>(9.5 mm)   | 97-100                                  | 95-100                                  | 95-100                                  |
| No. 4<br>(4.75 mm) | 0-12                                    | 0-25                                    | 0-35                                    |
| No. 200<br>(75 μm) | 0-1.0 <sup>a</sup>                      | 0-2.5 <sup>a</sup>                      | 0-3.5 <sup>a</sup>                      |

<sup>a</sup>The percent passing the No. 200 sieve may be increased by 1.0 percent provided the aggregate is pre-coated with bituminous material.

**1003.2.3** Crushed stone shall be obtained from rock of uniform quality. Rock from individual ledges and gravel tested for initial source approval shall meet the following criteria:

| <b>Property</b>                       | <b>Grade A Aggregate</b> | <b>Grade B Aggregate</b> | <b>Grade C Aggregate</b> |
|---------------------------------------|--------------------------|--------------------------|--------------------------|
| Absorption, AASHTO T 85, percent, max | 2.0                      | 4.0                      | 4.0                      |

**1003.2.4** Lightweight aggregate shall be in accordance with the following requirements for the grade specified in the contract:

| <b>Property</b>   | <b>Grade A<br/>Aggregate</b> | <b>Grade B<br/>Aggregate</b> | <b>Grade C<br/>Aggregate</b> |
|---|------------------------------|------------------------------|------------------------------|
| Absorption, ASSHTO T 85, percent,<br>max  | n/a                          | n/a                          | n/a                          |
| Micro-Deval, AASHTO TP 58, percent,<br>max  | 20                           | 20                           | n/a                          |
| Los Angeles Abrasion for Lightweight<br>Aggregate, MoDOT Test Method TM<br>78, percent, max | 50                           | 50                           | 50                           |