

JAR SLAKE TEST

1. SCOPE: The test is intended to assess the resistance to weathering of rock samples by a simple and quick procedure. The basis for the test is that weakly cemented or compacted argillaceous materials absorb moisture when subjected to a very basic, simulated weathering process. This procedure supplements the Slake Durability Index (SDI) test.
2. APPARATUS:
 - 2.1. Drying oven capable of maintaining a temperature of $230^{\circ} \pm 9^{\circ}\text{F}$.
 - 2.2. Beakers of at least 250 milliliter capacity.
 - 2.3. Distilled water or tap water.
3. PROCEDURE:
 - 3.1. Oven dry an approximately 50 gram sample of material for at least 6 hours, then let it cool for 30 minutes at room temperature.
 - 3.2. Immerse the sample in a beaker of distilled or tap water at least one half inch below the surface.
 - 3.3. Observe at frequent intervals for the first half hour noting the time with each observation; then at intervals thereafter for 24 hours.
4. REPORT: Jar slake values shall be reported according to the following criteria:

<u>Category</u>	<u>Behavior</u>
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| 1. | Degrades to pile of flakes or mud (Complete Breakdown). |
| 2. | Breaks rapidly and/or forms many chips. |
| 3. | Breaks slowly and/or forms many chips. |
| 4. | Breaks rapidly and/or develops several fractures. |

5. Breaks slowly and/or develops few fractures.
6. No change.

APPROVED

DIRECTOR
DIVISION OF MATERIALS

DATE

02/26/08

Kentucky Method 64-514-08
Revised 02/26/08
Supersedes KM 64-514-02
Dated 11/15/02

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