
Standard Method of Test for Clay Lumps and Friable Particles in Aggregate

AASHTO Designation: T 112-23¹

Technically Revised: 2023

Technical Subcommittee: 1c, Aggregates

ASTM Designation: C142/C142M-17



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1. SCOPE

- 1.1. This method covers the approximate determination of clay lumps and friable particles in aggregates. This method is intended for evaluating aggregates that are nominally smaller than 2 in.
- Note 1**—It is intended that this procedure will be conducted concurrently with T 27, when results from both procedures are desired. If that option is elected, additional sieves to those required in Section 6.3 will need to be incorporated; however, all of the material passing the 4.75 mm (No. 4) sieve at the completion of initial sieving and separation will be recombined prior to continuation of this procedure.
- 1.2. *This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety concerns associated with its use. It is the responsibility of the user of this standard to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to its use.*
- 1.3. *The quality of the results produced by this standard are dependent on the competence of the personnel performing the procedure and the capability, calibration, and maintenance of the equipment used. Agencies that meet the criteria of R 18 are generally considered capable of competent and objective testing/sampling/inspection/etc. Users of this standard are cautioned that compliance with R 18 alone does not completely assure reliable results. Reliable results depend on many factors; following the suggestions of R 18 or some similar acceptable guideline provides a means of evaluating and controlling some of those factors.*
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2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- < M 6, Fine Aggregate for Hydraulic Cement Concrete
 - < M 80, Coarse Aggregate for Hydraulic Cement Concrete
 - < M 231, Weighing Devices Used in the Testing of Materials
 - < M 339M/M 339, Thermometers Used in the Testing of Construction Materials
 - < R 18, Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
 - < R 76, Reducing Samples of Aggregate to Testing Size
 - < R 90, Sampling Aggregate Products
 - < T 11, Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing
 - < T 27, Sieve Analysis of Fine and Coarse Aggregates