
Standard Specification for Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses

AASHTO Designation: M 147-17 (2021)

Technically Revised: 2017

Reviewed but Not Updated: 2021

Technical Subcommittee: 1c, Aggregates



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1. SCOPE

- 1.1. This specification covers the quality and grading of sand–clay mixtures; gravel, stone, or slag screenings; or sand, crusher run coarse aggregate consisting of gravel, crushed stone, or slag with or without soil mortar or any combination of these materials for use in the construction of subbase, base, and surface courses. The values stated in SI units are to be regarded as the standard.
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2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- M 144, Calcium Chloride
 - R 58, Dry Preparation of Disturbed Soil and Soil–Aggregate Samples for Test
 - R 74, Wet Preparation of Disturbed Soil Samples for Test
 - 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
 - T 88, Particle Size Analysis of Soils
 - T 89, Determining the Liquid Limit of Soils
 - T 90, Determining the Plastic Limit and Plasticity Index of Soils
 - T 96, Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
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3. GENERAL REQUIREMENTS

- 3.1. *Coarse Aggregate:*
- 3.1.1. Coarse aggregate retained on the 2.00-mm (No. 10) sieve shall consist of hard, durable particles or fragments of stone, gravel, or slag. Materials that break up when alternately frozen and thawed or wetted and dried shall not be used.
- 3.1.2. Coarse aggregate shall have a percentage of wear, by the Los Angeles test, T 96, of not more than 50.
- Note 1**—A higher or lower percentage of wear may be specified by the engineer, depending on the materials available for the work.
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