
Standard Specification for

Glass Cullet Use for Soil-Aggregate Base Course

AASHTO Designation: M 318-01

1. SCOPE

- 1.1. This specification covers processed glass cullet intended for use as a granular road base material. When properly processed and mixed with natural or crushed aggregate, hauled to and properly spread and compacted on a prepared grade to appropriate density standards, glass cullet can be expected to provide adequate stability and load support for use as road or highway bases. Material described in this specification is not intended to be used in treated or stabilized pavement layers. This specification is intended for use in conjunction with M 147 or with the requirements of the local jurisdiction specifying the properties of natural or crushed aggregate used in the base course. It is not intended for use in base courses in locations where surfacing will not be placed over the base.

Note 1—The engineer is advised to provide appropriate construction specifications to ensure that sufficient compaction is achieved so that further densification of the completed pavement from traffic loadings will be insignificant. The method requires compaction of the material at a suitable moisture content on a firm foundation of a short control strip by means of vibratory or other proven effective rollers or tampers, until no further increase in density results. Compaction requirements should ensure that the average density of the final base course is an appropriate percentage of the maximum density obtained for the control strip; for base courses, achieving on average 98 percent of the maximum control strip density is suggested.

- 1.2. The values stated in SI units are to be regarded as the standard. The English unit equivalents shown in parentheses may be appropriate, except with regard to sieve sizes and aggregate size as determined by the use of testing sieves, in which case the standard SI designation shown is the standard as required by M 92.

2. DEFINITIONS

- 2.1. The definitions of base course and other soil-aggregate terms are given in M 146. The term glass cullet as used in this specification refers to a crushed glass container material that is screened and graded for potential use as a substitute material for soil-aggregate base course.

3. REFERENCED DOCUMENTS

3.1. *AASHTO Standards:*

- M 92, Wire-Cloth Sieves for Testing Purposes
- M 146, Terms Relating to Subgrade, Soil-Aggregate, and Fill Materials
- M 147, Materials for Aggregate and Soil-Aggregate Subbase, Base and Surface Courses