

Standard Specification for Glass Beads Used in Pavement Markings

AASHTO Designation: M 247-13 (2022)

Technically Revised: 2013 Reviewed but Not Updated: 2022 Editorially Revised: 2022

Technical Subcommittee: 4c, Markings and Coatings



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1. SCOPE

- 1.1. This specification covers glass beads to be dropped or sprayed upon pavement markings so as to produce a reflectorized pavement marking.
- 1.2. The values stated in SI units are to be regarded as the standard.
- 1.3. *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 use.*
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2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- [T 346](#), Glass Beads Used in Pavement Markings
 - [T 392](#), Determination of Heavy Metal Content of Glass Beads Using X-Ray Fluorescence (XRF)
- 2.2. *Environmental Protection Agency Standards:*
- Method 3052, Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices
 - Method 6010B, Inorganics by ICP-AES(Atomic Emission Spectroscopy)
 - Method 6010C, Inorganics by ICP-AES (Atomic Emission Spectroscopy)
 - Method 6010D, Inorganics by ICP- OES (Optical Emission Spectroscopy)
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3. GENERAL REQUIREMENTS

- 3.1. *Types:*
- 3.1.1. *Type 0*—shall be known as a uniform gradation.
- 3.1.2. *Type 1*—shall be known as a standard gradation.
- 3.1.3. *Types 2, 3, 4, and 5*—shall be known as modified gradations.
- 3.2. *Coatings:*
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