PO Box 841
Valley Forge PA 19482
1-800-55-BEADS
www.pottersbeads.com

AASHTO M247-11 TYPE 1 GLASS BEAD MARKING SPHERES

1.0 GENERAL REQUIREMENTS

The beads shall be clear, smooth and spherically shaped and shall conform to the following specific requirements.

1.1 ***Gradation*** – The **AASHTO M247-11 TYPE 1** glass beads shall meet the gradation requirements as given below and shall be tested in accordance to ASTM D1214 and AASHTO PP-74-13.

US Sieve No.	Microns	Mass % Passing
16	1180	100
20	850	95-100
30	595	75-95
50	297	15-35
100	149	0-5

1.2 ***Roundness*** – **AASHTO M247-11 TYPE 1** safety spheres shall be at least 70% round by Computerized Optical Method (AASHTO PP-74-13) or approved equivalent in accordance with AASHTO T346-13 Section 6. %Rounds may increase to meet local specification enhancement.

1.3 ***Refractive Index*** – The **AASHTO M247-11 TYPE 1** glass beads shall have a refractive index of 1.50 to 1.55.

1.4 ***Coating*** – The **AASHTO M247-11 TYPE 1** can be ordered with coatings to meet or exceed each state or paint manufacturer specification, typically an Adherence Enhancing or Dual Coating.

2.0 APPLICATION SPECIFICATIONS

AASHTO M247-11 TYPE 1 Glass Bead Drop rates in lbs./100 sq. foot				
System	Standard 15 mil Waterborne	High build Waterborne	Epoxy	Thermoplastic
Single Drop	6-8	6-8	12-16	6-8
Double Drop with M247 Type 1		6-8 8	12-16 8	6-8 8

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