

ROUNDNESS OF GLASS BEADS

1.0 SCOPE

- 1.1 This method describes the procedures used to determine the percent by weight of the true spherical glass beads used for retroreflective marking purposes in Traffic Paint.

2.0 APPLICABLE DOCUMENTS

- 2.1 ASTM D1155 Standard test method for roundness of glass spheres
- 2.2 AASHTO M247-81 Standard specification for glass beads used in traffic paint
- 2.3 [TLT-604](#) Sieve Analysis of Glass Beads

3.0 APPARATUS AND PROCEDURE

- 3.1 The equipment and procedures used are as per those used in the above mentioned publications with the following modifications:

3.1.1 Use procedure B of ASTM D1155 with size ranges of:

- a) -630 +400 μ m
- b) -400 +315 μ m
- c) -315 +200 μ m

3.1.2 The -200 μ m portion will not be tested nor considered as part of the sample.

4.0 CALCULATION AND REPORT

- 4.1 Percent Round Beads - Calculate the percentage of round beads by dividing the total weight of Round Beads by total weight of sample.

5.0 SPECIFICATIONS

- 5.1 At Least 75% by weight shall be of true spherical shape.