
Sampling Traffic Paint for Infrared Identification of Vehicle Solids from Solvent-Reducible Paints and for X-Ray Diffraction of Solventborne and Waterborne Paints

SC T 109

1. Scope

To take and prepare National Transportation Product Evaluation Program (NTPEP) samples for infrared identification of vehicle solids from solvent reducible paints and for x-ray diffraction of all paints for traffic markings.

2. Referenced Documents

2.1 ASTM Standards

D 2621 Test Method for Infrared Identification of Vehicle Solids from Solvent-Reducible Paints

2.2 NTPEP's Project Work Plan for the field and laboratory evaluation of pavement marking materials

3. Apparatus

3.1 Tin panels, 30 gauge, approximately 1 inch x 3 inches

3.2 10 mil syringe

3.3 10 mil centrifuge tubes

3.4 Paint shaker

3.5 Paint stirrers

3.6 Marking pens

3.7 Shipping containers

4. Test Specimens

4.1 Quart or pint cans of paint

5. Procedure

5.1 Solventborne Paint

5.1.1 Mix sample with shaker for 10 minutes.

5.1.2 Open can and obtain a 10 mil sample using the syringe.

5.1.3 Quickly transfer sample into an identified 10 mil centrifuge tube and seal.

5.1.4 Dip the identified tin panel about 2 inches into the paint and allow the excess to run off. Place the panel in a holder so it will remain level. The paint should not touch any surface until it becomes dry.

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- 5.1.5 Wrap the panel in soft paper for shipping and record on the test sheet that the procedure was completed.
 - 5.2 Waterborne Paint
 - 5.2.1 Mix the sample by stirring until it becomes uniform.
 - 5.2.2 Complete steps 5.1.4 and 5.1.5 as described under “5.1. Solventborne Paint.”
 - 5.3 Place the samples in proper shipping containers with the reports, which will be shipped to another laboratory (tube identified) for testing.

6. Calculations

None

7. Report

None

Test results are reported on an NTPEP form.