

SAMPLING BITUMINOUS MATERIALS

(An Arizona Method)

1. SCOPE

- 1.1 This procedure covers best practices for sampling of Bituminous materials (paving grade asphalt, crumb rubber asphalt and emulsions) in the field.
- 1.2 This test method may involve hazardous material, operations, or equipment. This test method does not purport to address all of the safety concerns associated with its use. It is the responsibility of the user to consult and establish appropriate safety and health practices and determine the applicability of any regulatory limitations prior to use.
- 1.3 For the purpose of this test method Bituminous materials other than Emulsions will be referred to as “Asphalt Binder”, and Emulsified Bituminous material i.e. (RS-1, SS-1, CSS-1, etc...) will be referred to as “Emulsions”.

2. SIZE OF SAMPLES

- 2.1 A minimum of 1 gal. of Asphalt Binder.
- 2.2 A minimum of two ½ gal. containers per sample of Emulsions.

3. CONTAINERS

- 3.1 Containers for Asphalt Binder, shall be double friction top cans.
- 3.2 Containers for Emulsion samples shall be wide mouth containers made of plastic.

4. PROTECTION AND PRESERVATION OF SAMPLES

- 4.1 Containers shall be new and free of any moisture, contaminants, or residue from any manufacturing process. The top and container shall fit together tightly.

- 4.2 The container shall be tightly sealed immediately after obtaining the sample.
- 4.3 The filled sample container shall not be cleaned using a solvent. If cleaning is necessary use a clean dry cloth.
- 4.4 Samples of Emulsion shall be protected from freezing.
- 4.5 Transferring samples from one container to another shall be avoided if possible.
- 4.6 Sample containers shall be identified using sample tags that are securely fastened to the side of the container so they will not be lost in transit, and shall be clearly marked for identification with a suitable permanent marker on the side of the container itself.

5. PROCEDURE

- 5.1 Samples of Asphalt Binder shall be taken from the last possible point before the bituminous material is introduced into the hot plant. This is usually from a spigot or faucet on the circulation line.
- 5.2 Bituminous materials applied to pavement surfaces, i.e. Tack Coat, Fog Coat shall be sampled from the distributor truck at the project.
- 5.3 Clearly identify the side (not the lid) of a new clean container of appropriate size with the sample number, date, project number, type of material, and any other pertinent information.
- 5.4 To ensure the sample is representative, draw off and discard a minimum of 1 gal. of Bituminous material prior to obtaining the sample from the sampling valve.
- 5.5 From the sampling valve draw off the minimum amount of Bituminous material required for the type of material being sampled. Care should be taken to avoid spilling any material on the outside of the container or over filling the container. The container should be filled to no closer than one inch from the top.
- 5.6 Immediately after obtaining the sample, the clearly identified container shall be tightly and positively sealed.