



**PROCEDURE FOR RETESTING & REPORTING
ASPHALT PENETRATION, ABSOLUTE VISCOSITY &
LIQUID ASPHALT KINEMATIC VISCOSITY RESULTS**

GENERAL

These procedures are intended for use by all District Laboratories and the Central Laboratory in testing and reporting asphalt penetration, absolute viscosity and liquid asphalt kinematic viscosity results. The asphalt sample referred to in the procedure is the material contained in the proper ointment tin and the liquid asphalt sample contained in the one-liter (one-quart) specified container.

RETESTING (Same Laboratory - Same Operator)

Asphalt penetration, absolute viscosity and liquid asphalt kinematic viscosity results that fail to meet the specifications must be retested to verify the original results. The retest shall be accomplished by the following method:

1. Asphalt Penetration

The original asphalt penetration sample shall be reheated and tested. To correct for the effect of reheating, multiply the retest value by 1.015 and round off to the nearest whole number to obtain the verifying result. The two results (original and corrected retest) shall be considered suspect if they differ by more than 3% of their mean.

2. Asphalt Absolute Viscosity

The original asphalt absolute viscosity sample shall be reheated and tested. To correct for the effect of reheating, multiply the retest value by 0.99 and round off to the required significant figures to obtain the verifying result. The two results (original and corrected retest) shall be considered suspect if they differ by more than 4% of their mean.

3. Liquid Asphalt Kinematic Viscosity

The original liquid asphalt kinematic viscosity shall be retested by obtaining a second test sample from quart (one liter) sample container which has been securely sealed. The two results (original and retest) shall be considered suspect if they differ by more than 1.5% of their mean.

RETESTING (Different Laboratories - Different Operators)

Samples for retest may be sent to the Central Laboratory. These samples should only be tested once by the District Laboratory. These samples should be identified as Departmental Information and submitted with the District Laboratory's test results.

1. Asphalt Penetration

To correct for the effect of reheating, the Central Laboratory shall multiply the retest value by 1.015 and round off to the nearest whole number to obtain the verifying result. The two results (District and corrected Central Laboratory results) shall be considered suspect if they differ by more than 5% of their mean.

2. Asphalt Absolute Viscosity

To correct for the effect of reheating, the Central Laboratory shall multiply the retest value by 0.99 and round off to the required significant figures to obtain the verifying result. The two results (District and corrected Central Laboratory) shall be considered suspect if they differ by more than 5% of their mean.

3. Liquid Asphalt Kinematic Viscosity

The two results (District and Central Laboratory results) shall be considered suspect if they differ by more than 3% of their mean.

REPORTING RESULTS

The District Laboratory result that is verified by the same laboratory shall be reported. Suspect results should be voided and an additional sample taken when possible. If an additional sample cannot be obtained, the District Materials Engineer's judgment prevails. The District Materials Engineer must notify the Materials Engineer immediately and document the basis for the decision.

If the District Laboratory result cannot be verified by the Central Laboratory, the Central Laboratory result, corrected for reheating effects, shall be considered the final result.

NOTE: This procedure does not affect any established correlation program.