

Recommend Approval: <u><i>Debra B. Stewart</i></u> <u>2-8-12</u> Assistant Division Chief Date <u><i>W. J. B.</i></u> <u>2/8/12</u> Division Chief Date	Maryland Department of Transportation State Highway Administration Office of Materials Technology MARYLAND STANDARD METHOD OF TESTS	
Approved: <u><i>Tim Sauer</i></u> <u>03/12/12</u> Director Date	FIELD DETERMINATION OF WEIGHT PER GALLON FOR WHITE PIGMENTED CURING COMPOUNDS	MSMT 561

SCOPE:

This procedure is used in the field to determine the weight per gallon of white pigmented curing compounds.

MATERIALS AND EQUIPMENT:

1. A 1-quart glass jar and strike-off plate with calibration factor etched on jar.
2. Scale or balance conforming to M 231, Class G2.

TEST PROCEDURE:

1. Weigh empty calibrated jar and strike-off plate as a unit to the nearest 0.1 g.
2. Shake or stir sample by air or mechanical means for thorough distribution of ingredients.
3. From the sampling container, fill the calibrated jar to excess.
4. Strike off the liquid in the jar using the strike-off plate and wipe overflow from plate and jar.
5. Weigh the jar and its contents with strike-off plate to the nearest 0.1 g.

CALCULATIONS:

$$W_G = (A-B)(C)$$

where:

W_G = weight per gallon, in 0.1 lb/gal,

A = weight of filled jar and strike-off plate, in lb,

B = weight of empty jar and strike-off plate, in lb, and

C = Correction factor for jar.

Compare the weight per gallon results of the batch or lot to the original weight per gallon furnished by the laboratory. Results shall be within a 0.3 lb/gal tolerance.

NOTE:Material failing weight per gallon shall be agitated again and resampled. Failing resamples will cause the lot or batch represented to be rejected. Failing resamples will be sent to the Laboratory for comparison to original certification results.

REPORT:

Report the weight per gallon to the nearest 0.1 lb.