

HMA SUPERPAVE AV USER GUIDE AGENCY

The following pages are for use after page 21 of the Sample Record Creation (Generic) User Guide and before page 22.

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Overview Find Sample Maintain Test Queue Receive at Destination Lab Receive at Lab Unit Review Samples Review Tests

Sample Record Summary

Save Complete X

Sample Record: rickba20240927081314 Save ?

- General
- Sources
- Associations
- Contract
- Tests
- Sample Location
- Additional Information

Material: HMA_12.5A - Hot Mix Asphalt SR/SM-12.5A

Sample Type: ACC - Acceptance

Q Type search criteria or press Enter System Default Showing 1 of 1

Assign Tests 0 marked for deletion | 0 changed

Test Number	Test Method	Destination Lab	Lab Unit	MAA	Test Inst	Required	Default
1.0	HMA Mix Analysis	D1A3 Field	D1A3 Field Lab	<input checked="" type="checkbox"/>		1 No	Yes
Test Status		Reference Specification Selected					
05 - Test Assigned		No					

Click "HMA Superpave v3".

- Actions X
 - Delete
 - Exclude from Search Results
 - Open
 - Tasks
 - Add Test Run
 - Generate Test Results Comparison
 - Views
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Sample Record Test

Agency View Summary

▼ HMA Superpave v.3 7. It is recommended that you Save as you go. ?

1 changed

Quality Control/Verification Sublot/Lot Volumetrics Report

Project Number:	U075-007 KA 4798-03	Contract No.:	521022021	Sample ID:	
Mix Type:	Hot Mix Asphalt SR/SM-12.5A	Location:	M - Mainline	Tests performed by:	<input type="text" value="Weyer"/> <input type="text" value="Patrick"/>
Design Lab No.:	1G21028A	Represented Qty (Tons):	<input type="text" value="1,000.00"/>	Certified Inspector #:	000456900
Lot/Sublot #:	<input type="text" value="4"/>	Remarks:	<input type="text" value="QA Sample taken between Sublots 4b and 4c"/>		
Date Sampled:	<input type="text" value="09/27/2024"/>	PG Grade:	021PG7028		

1. Select the location where the sample was taken.

5. Select who performed the test.

2. Enter the tons represented by the sample.

3. Enter the Lot # or Sublot # that the sample represents.

6. Enter your remarks.

4. Enter the date the sample was taken.

Material Code	Source	Source Name	Local Name	%	Gsb	% / Gsb
AGGHMA_CS-1	00800977	HAMM, INC. (GRANTVILLE QUARRY) (JEFFERSON CO)	S09 T11SR17E	<input type="text" value="12.00"/>	2.508	4.785
AGGHMA_CS-1A	00800977	HAMM, INC. (GRANTVILLE QUARRY) (JEFFERSON CO)	S09T11S R17E	<input type="text" value="25.00"/>	2.510	9.960
AGGHMA_CS-2	00800977	HAMM, INC. (GRANTVILLE QUARRY) (JEFFERSON CO)	S10 T14S R04E	<input type="text" value="10.00"/>	2.590	3.861
AGGHMA_CS-2A	00823701	IRON MOUNTIAN TRAP ROCK CO (IRON MOUNTAIN,MO)	S30 T35N R04E	<input type="text" value="10.00"/>	2.567	3.896
AGGHMA_SSG	00845601	8. Enter each aggregate's percentage in the Job Mix Formula (JMF).		<input type="text" value="18.00"/>	2.596	6.934
AGGHMA_CG-1	00845601	BUILDERS CHOICE AGGREGATE (SHAWNEE CO)	S20 T11SR15E	<input type="text" value="10.00"/>	2.596	3.852
AGGHMA_RAP	KD989901	K.D.O.T. DISTRICT-1 (TOPEKA,KS)	Millings US-75 North	<input type="text" value="10.00"/>	2.660	3.759
AGGHMA_RAS	CC071200	HAMM ASPHALT INC (PERRY,KANSAS)	Shingles	<input type="text" value="5.00"/>	2.802	1.784
Total Aggregate					100	
Combined Aggregate Gsb					2.575	
021PG7028	00104901	FHR 9. Enter the target Asphalt Cement Percentage.		<input type="text" value="5.90"/>	Target AC	
Gb of added AC					1.0290	
Additive	Source	Source Name	Product	%		
Warm Mix	00148301	INGEVITY (RICHMOND, VA)	EVOTHERM	<input type="text" value="0.50"/>		
Anti-Strip				<input type="text"/>		
Rejuvenator				<input type="text"/>		

8. Enter each aggregate's percentage in the Job Mix Formula (JMF).

Make sure the Aggregate Percentages total 100%.

9. Enter the target Asphalt Cement Percentage.

10. Enter the Percentages of the Warm Mix Additive (WMA), Anti-Strip, and Rejuvenator.

Recommend Saving as you go.



A B ← If testing in portions, enter data for the second portion in Column B.

Flask used Yes/No N - NO 11. Select "Yes" if Flask is used and "No" if the Bowl is used.

Mass Of Sample and Container (g) 3,373.0 12. Enter the Mass of the Sample and Container in Air.

Mass Of Container (g) 1,825.0 13. Enter the Mass of the Container in Air.

Mass of Sample (g) 1,548.0

Water Temperature (°F) 77.0 14. Enter the Water Temperature in Fahrenheit.

Container & Sample & Water (g) 2,065.9 15. After removing the trapped air, enter the mass of the sample and container in water.

Mass of Container & Water (g) 1,150.8 16. Enter the Mass of the container in water.

Mass Sample in Water (g) 915.1

Max. Sp. Gr. (Gmm) 2.446

Recommend Saving as you go.

Average Gmm 2.446

KT-58 (Gyratory Plugs)

Nini Revolutions: 8

Ndes Revolutions: 100

Nmax Revolutions: 160

Compacting Temp. Range (F) 250-260

A B

Mold. Temp. (F)

Ht.@Nini (mm)

Ht.@Ndes (mm)

Ht.@Nmax (mm)

Mass In Air (Dry)

Mass In Water(Sat.)

Mass In Air(Sat.)

Sp.Gr.(Nmax) 2.387 2.387

% Gmm(Nmax) 97.6 97.6

Sp.Gr.(Ndes) 2.366 2.369

% Gmm(Ndes) 96.7 96.9

Sp.Gr.(Nini) 2.211 2.214

% Gmm(Nini) 90.4 90.5

17. Enter data for two (2) Superpave Gyratory Plugs.

18. Enter the Molding Temperature for each specimen.

19. Enter the Plug height at "N" initial gyrations for each specimen.

20. Enter the Plug height at "N" design gyrations for each specimen.

21. Enter the Plug height at "N" maximum gyrations for each specimen.

22. Enter the Mass of the dry Plug in air.

23. Enter the Mass of the Plug in water.

24. Enter the Mass of the saturated surface dry (SSD) Plug in air.

Recommend Saving as you go.

KT-57 (Ignition Oven Burn-off)

Wet Sample Mass (g)

1,549.40

25. Enter the Mass of the Sample before drying.

Mass of Moisture in Mix (g)

1.80

This is the difference between the Wet Sample Mass and the Mass of the Sample.

Percent Moisture in Mix (%)

0.12

This is the Percentage of Moisture in the Mix based on the Mass of the Moisture in the Mix (must be less than or equal to 0.5%)

Sample & Basket Mass (g)

4,613.8

26. Enter the Mass of the basket and sample after drying.

Basket Mass (g)

3,066.2

27. Enter the Mass of the basket.

Mass of Sample (g)

1,547.6

Aggregate & Basket Mass (g)

4,523.7

28. Enter the Mass of the aggregate and basket after the asphalt is burned off in the ignition oven.

Mass Loss (g)

90.1

Correction Factor (%)

0.00

29. Enter the Burn-Off Correction Factor that was determined in the design stage.

%AC (Corrected)

5.82

This is the Percent Asphalt Binder in the Sample.

Recommend Saving as you go.

Sieve Analysis

Sample Dry Mass (g) 30. Enter the Sample Dry Mass prior to the Wash. This should be close to the Mass of the Sample from KT-57.

Sample Mass After Wash (g) 31. Enter the Dry Sample Mass after the Wash.

Sieve	Grams Retained	% Retained
1 1/2"	<input type="text"/>	
1	<input type="text"/>	
3/4	<input type="text" value="0.0"/>	0
1/2	<input type="text" value="65.1"/>	4
3/8	<input type="text" value="182.4"/>	12
#4	<input type="text" value="536.8"/>	35
#8	<input type="text" value="798.7"/>	52
#16	<input type="text" value="1,000.7"/>	65
#30	<input type="text" value="1,154.4"/>	75
#50	<input type="text" value="1,288.4"/>	84
#100	<input type="text" value="1,410.2"/>	92
#200	<input type="text" value="1,450.4"/>	94.7
Pan	<input type="text" value="1,465.5"/>	

32. Enter each mass retained on each sieve.

Test Acceptability Mass acceptability should be less than or equal to 0.3%.

#200

Surface Area

Recommend Saving as you go.

Recap of Mix Properties	
Target % AC in the Mix	5.90
% AC by Mass of Mix	5.82
% Aggr. by Mass of Mix	94.18
Sp. Gr. of AC	<input type="text" value="1.0190"/>
Bulk Sp. Gr. of Aggr.	2.575
Max. Sp. Gr.	2.446
Percent Passing the #200 Sieve	5.3
Surface Area	29.60
Bulk Sp. Gr. of Mix	2.368
Eff. Sp. Gr. of Aggr.	2.678
Absorbed % AC	1.52
Eff. Asphalt Content	4.39
% VMA	13.4
% Air Voids	3.19
% VFA	76
Eff. Film Thickness	7.22
Dust/Binder Ratio	1.2
% AC(Dev. from Target)	-0.08
% Gmm @ Nini	90.4
% Gmm @ Nmax	97.6

33. Enter the Specific Gravity of the Asphalt Binder from the applicable Bill of Lading.

34. Click the arrow to go to the top of the AV and click "Save".

Sample Record Test ← **Once you have completed and Saved your Agency View, Click "Sample Record Test".**

Agency View Summary

1 changed

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