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Hot Mix Asphalt Gyratory 35/36

Final Report Date: 8/21/2013

PSP Enrollment #3879

University of Arkansas Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 8/7/2013 at 11:43 AM

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The Z-Score indicates the number of standard deviations from the average value. The Z-Score is determined by the following calculation:

Z-Score = (Laboratory Test Result - Average Value) / (Standard Deviation)

The laboratory Rating calculation is based on the absolute value of the Z-Score (or number of standard deviations from the average). The following describes the laboratory Rating system:

- If Z-Score <= 1 Then Rating = 5
- If Z-Score > 1 And <= 1.5 Then Rating = 4
- If Z-Score > 1.5 And <= 2 Then Rating = 3
 If Z-Score > 2 And <= 2.5 Then Rating = 2
 If Z-Score > 2.5 And <= 3 Then Rating = 1

- If Z-Score > 3 Then Rating = 0

A negative sign on a Z-Score or Rating indicates that the laboratory's result was below the average, while a positive Z-Score or Rating indicates that the laboratory's result was above the average.

Maximum Specific Gravity (Gyratory)

Maximum Specific Gravity - T209/D2041

View Youden Diagram | View Performance Chart

			Sample 35			Sample 36	Repeatability(within-lab)							
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													Rating
1	661	2.552	2.5495	0.0061	0.41	5	2.534	2.5287	0.0061	0.87	5	0.0042	0.48	5

Bulk Specific Gravity Saturated Surface-Dry Method (Gyratory)

Bulk Specific Gravity (Saturated Surface-Dry Method) - T166/D2726

View Youden Diagram | View Performance Chart

				Sample 35					Sample 36			Repeata	ability(withi	n-lab)
	Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													Rating
2	654	2.474	2.4658	0.0207	0.40	5	2.462	2.4630	0.0194	-0.05	-5	0.0067	-0.97	-5 °

Bulk Specific Gravity Using Vacuum Sealing Method **Bulk Specific Gravity (Vacuum Sealing Method)** - T331/D6752

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				Sample 35					Sample 36			Repeata	bility(withi	n-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab Rating
3	92	2.460	2.4521	0.0220	0.36	5	2.474	2.4490	0.0213	1.17	4	0.0079	1.52	3 ຶ

Hot Mix Asphalt Superpave Gyratory Compactor

Height During Compaction after 8 gyrations (0.1 mm) - T312/D6925

View Youden Diagram | View Performance Chart

				Sample 35					Sample 36			Repeata	ability(withi	n-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
4	651	126.0	126.10	1.49	-0.07	-5	126.8	126.14	1.56	0.43	5	0.54	1.00	4

Hot Mix Asphalt Superpaye Gyratory Compactor

Height During Compaction after 100 gyrations (0.1 mm) - T312/D6925

View Youden Diagram | View Performance Chart

				Sample 35					Sample 36			Repeat	abılıty(wıthı	n-lab)
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
5	651	112.5	112.54	1.13	-0.03	-5	112.9	112.40	1.12	0.45	5	0.38	1.00	4

Hot Mix Asphalt Superpave Gyratory Compactor

Percent of Maximum Specific Gravity after 8 gyrations (0.1 percent) - T312/D6925

View Youden Diagram | View Performance Chart

					Sample 35					Sample 36			Repeata	ability(withi	n-lab)
		Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
		Labs		_			_					_			Rating
. [6	644	86.6	86.30	0.96	0.31	5	86.5	86.77	0.94	-0.29	-5	0.37	-1.10	-4

Hot Mix Asphalt Superpave Gyratory Compactor

Percent of Maximum Specific Gravity after 100 gyrations (0.1 percent) - T312/D6925

View Youden Diagram | View Performance Chart

		Brain Tierr		Sample 35					Sample 36	Repeatability(within-lab)				
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	
	Labs													Rating
7	646	96.9	96.72	0.87	0.21	5	97.2	97.41	0.82	-0.25	-5	0.36	-0.76	-5

Ratings Suppressed

-- No Data Submitted or Data Out of Accepted Range



