

PC CONCRETE GRADATION COMPARISON REPORT
 (Computer Spreadsheet Available on Iowa DOT Office of Materials Web Site)

Rev 05/03

Iowa Department of Transportation
Reported Gradation & IM 216 Comparison Report

Form 200

Project No.: _____	Intended Use: _____ (Paving, Structure, Patching, Incidental
Contract ID: _____	
County: _____	Good Fair Poor
Contractor/Producer: _____	Care of Equipment: _____
Design No.: _____	Sampling Procedure: _____
Coarse Agg. T203 A No.: _____	Splitting Procedure: _____
Fine Agg. T203 A No.: _____	Sieving to Completion: _____
Proper Equipment: _____	Computations: _____
Applicable Specs.: _____	Reporting: _____
DOT Tested By: _____	Cert. No.: _____ Date: _____
Contr./Prod. Tested By: _____	Cert. No.: _____ Date: _____

Grad No.	Sample ID	Specs	Sieve Sizes - Percent Passing													
			1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200		
		DOT														
		Contr./Prod.														

Grad No.	Sample ID	Specs												
		DOT												
		Contr./Prod.												

Sieves	DOT % Retained	Contr./Prod. % Retained	Diff.	Tol. %	Comply (Y/N)
1 1/2 - 1	NA	NA	0.0	2	Y
1 - 3/4	NA	NA	0.0	2	Y
3/4 - 1/2	0.0	0.0	0.0	2	Y
1/2 - 3/8	0.0	0.0	0.0	2	Y
3/8 - 4	0.0	0.0	0.0	2	Y
4 - 8	0.0	0.0	0.0	1	Y
8 - 200	0.0	0.0	0.0	1	Y
200	0.0	0.0	0.0	1	Y

	Size Fraction Between Consecutive Sieves, %		Tolerance, %
Coarse Aggregate:	0.0 to 3.0	2	
	3.1 to 10.0	3	
	10.1 to 20.0	5	
	20.1 to 30.0	6	
	30.1 to 40.0	7	
	40.1 to 50.0	9	

3/8 - 4	0.0	0.0	0.0	2	Y
4 - 8	0.0	0.0	0.0	1	Y
8 - 16	0.0	0.0	0.0	1	Y
16 - 30	0.0	0.0	0.0	1	Y
30 - 50	0.0	0.0	0.0	1	Y
50 - 100	0.0	0.0	0.0	1	Y
100 - 200	0.0	0.0	0.0	1	Y
200	0.0	0.0	0.0	1	Y

Fine Aggregate:	0.0 to 3.0	1
	3.1 to 10.0	2
	10.1 to 20.0	3
	20.1 to 30.0	4
	30.1 to 40.0	4

Remarks: _____

Distribution _____ Central Materials _____ Dist. Materials _____ Contr./Producer _____ Proj. Engineer _____ Technician _____

HMA GRADATION COMPARISON REPORT

(Computer Spreadsheet Available on Iowa DOT Office of Materials Web Site)

Rev 05/03

Iowa Department Of Transportation Reported Gradation & IM 216 Comparison Report

Form 201

Project No.: _____

Contract ID: _____ Intended Use: _____

County: _____

Contractor/Producer: _____

Mix Design No.: _____

Mix Change (Y/N): _____

Date of Change: _____

Total, % Asphalt (Pb): _____

Effective % Asphalt (Pbe): _____

Proper Equipment: _____

Applicable Specs.: _____

DOT Tested By: _____ Cert. No.: _____ Date: _____

Contr./Prod. Tested By: _____ Cert. No.: _____ Date: _____

	Good	Fair	Poor
Care of Equipment: _____	_____	_____	_____
Sampling Procedure: _____	_____	_____	_____
Splitting Procedure: _____	_____	_____	_____
Sieving to Completion: _____	_____	_____	_____
Computations: _____	_____	_____	_____
Reporting: _____	_____	_____	_____

		Sieve Sizes - Percent Passing											
		1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200
	Specs.												
Sample ID	DOT												
Sample ID	Contr./Prod.												

Sieves	DOT % Retained	Contr./Prod. % Retained	Diff.	Tol. %	Comply (Y/N)
1 1/2 - 1	NA	NA	0.0	2	Y
1 - 3/4	NA	NA	0.0	2	Y
3/4 - 1/2	NA	NA	0.0	2	Y
1/2 - 3/8	NA	NA	0.0	2	Y
3/8 - 4	NA	NA	0.0	2	Y
4 - 8	NA	NA	0.0	2	Y
8 - 16	NA	NA	0.0	2	Y
16 - 30	NA	NA	0.0	2	Y
30 - 50	NA	NA	0.0	2	Y
50 - 100	NA	NA	0.0	2	Y
100 - 200	NA	NA	0.0	2	Y
200	NA	NA	0.0	2	Y

DOT Gyration Filler/Bitumen Ratio

0.00

Sieve Fraction Between

Consecutive Sieves, % Tolerance, %

0.0	To	3.0	2
3.1	To	10.0	3
10.1	To	20.0	5
20.1	To	30.0	6
30.1	To	40.0	7
40.1	To	50.0	9

Remarks: _____

Distribution _____ Central Materials _____ Dist Materials _____ Contr./Producer _____ Proj. Engineer _____ Technician _____

Rev 05/08

Iowa Department Of Transportation

Fom 201 Modified

Cold-Feed & Ignition Oven Gradation & I.M. 216 Comparison Report

Project No.: _____
 Contract ID: _____ Intended Use: _____
 County: _____
 Contractor/Producer: _____
 Mix Design No.: _____ Good Fair Poor
 Mix Change (Y/N): _____ Care of Equipment: _____
 Date of Change: _____ Sampling Procedure: _____
 Total, % Asphalt (Pb): _____ Splitting Procedure: _____
 Effective % Asphalt (Pbe): _____ Sieving to Completion: _____
 Proper Equipment: _____ Computations: _____
 Applicable Specs.: _____ Reporting: _____

Ignition Oven Tested By: _____ Cert. No.: _____ Date: _____
 Cold-Feed Tested By: _____ Cert. No.: _____ Date: _____

		Sieve Sizes - Percent Passing											
		1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200
Sample ID	Specs. Ign. Oven												
Sample ID	Cold-Feed												
Correction Factor		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Sieves	Ign. Oven % Retained	Cold-Feed % Retained	Diff.	Tol. %	Comply (Y/N)
1 1/2 - 1	NA	NA	0.0	5	Y
1 - 3/4	NA	NA	0.0	5	Y
3/4 - 1/2	NA	NA	0.0	5	Y
1/2 - 3/8	NA	NA	0.0	5	Y
3/8 - 4	NA	NA	0.0	5	Y
4 - 8	NA	NA	0.0	2	Y
8 - 16	NA	NA	0.0	2	Y
16 - 30	NA	NA	0.0	2	Y
30 - 50	NA	NA	0.0	2	Y
50 - 100	NA	NA	0.0	2	Y
100 - 200	NA	NA	0.0	2	Y
200	NA	NA	0.0	2	Y

Corrected Ign. Oven SA:		Film Thickness:	
Cold-Feed Surface Area:		Film Thickness:	
Correction Factor:			

Sieve Fraction Between			
Consecutive Sieves, %	To	%	Tolerance, %
0.0	To	3.0	2
3.1	To	10.0	3
10.1	To	20.0	5
20.1	To	30.0	6
30.1	To	40.0	7
40.1	To	50.0	9
+#4 sieves minimum tolerance = 5			

Remarks: _____

Distribution _____ Central Materials _____ Dist Materials _____ Contr./Producer _____ Proj. Engineer _____ Technician _____

QMC GRADATION COMPARISON REPORT
(Computer Spreadsheet Available on Iowa DOT Office of Materials Web Site)

QMC Gradation Correlation I.M. 216

Project No.: _____

 Contract ID: _____ Date Sampled: _____
 Plant Name: _____ County: _____ Gradation Date: _____
 Contractor: _____ Mix Design Number: _____ Design No.: _____
 Coarse Agg. Source: _____ Intermediate Agg. Source: _____ Fine Agg. Source: _____
 Monitor: _____ Cert. No.: _____ Proper Equipment: _____
 C.P.I.: _____ Cert. No.: _____ Specification: _____

Sieve Size	D.O.T. Coarse Agg Percent Passing	Prod. / C. P. I. Coarse Agg Percent Passing	D.O.T. Coarse Agg Percent Retained	Prod. / C. P. I. Coarse Agg Percent Retained	Fraction Difference	Applicable Tolerance	Complies
1.5" / 37.5mm							
1" / 25.0mm							
3/4" / 19.0mm							
1/2" / 12.5mm							
3/8" / 9.5mm							
#4 / 4.75mm							
#8 / 2.36mm							
Minus #200							

Sieve Size	D.O.T. Intermediate Aggregate Percent Retained	Prod. / C. P. I. Intermediate Aggregate Percent Retained	Fraction Difference	Applicable Tolerance	Complies
1.5" / 37.5mm					
1" / 25.0mm					
3/4" / 19.0mm					
1/2" / 12.5mm					
3/8" / 9.5mm					
#4 / 4.75mm					
#8 / 2.36mm					
Minus #200					

Sieve Size	D.O.T. Fine Aggregate Percent Passing	Prod. / C. P. I. Fine Aggregate Percent Passing	D.O.T. Fine Aggregate Percent Retained	Prod. / C. P. I. Fine Aggregate Percent Retained	Fraction Difference	Applicable Tolerance	Complies
3/8" / 9.5mm							
#4 / 4.75mm							
#8 / 2.36mm							
#16 / 1.18mm							
#30 / 600um							
#50 / 300um							
#100 / 150um							
Minus #200							

Care of Equipment	<input type="checkbox"/> GOOD	<input type="checkbox"/> FAIR	<input type="checkbox"/> POOR	Comments: _____ _____ _____ _____ _____
Sampling Procedure	<input type="checkbox"/> GOOD	<input type="checkbox"/> FAIR	<input type="checkbox"/> POOR	
Splitting Procedure	<input type="checkbox"/> GOOD	<input type="checkbox"/> FAIR	<input type="checkbox"/> POOR	
Sieving to Completion	<input type="checkbox"/> GOOD	<input type="checkbox"/> FAIR	<input type="checkbox"/> POOR	
Computations	<input type="checkbox"/> GOOD	<input type="checkbox"/> FAIR	<input type="checkbox"/> POOR	
Reporting	<input type="checkbox"/> GOOD	<input type="checkbox"/> FAIR	<input type="checkbox"/> POOR	

cc: _____