

Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-36

Sample Date: 4/27/20

Dates Test Represents: 4/28/2020 through 5/4/2020

Concrete Grade: DM

Contractor: _____

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	Contribution %
6AA	71-47	Presque Isle	1600	9.79	2.62	55.1
26A	71-47	Presque Isle	205	1.25	2.62	7.1
2NS	63-92	Grange Hall	1100	6.65	2.65	37.9
Total Wt:						17.69
						100.0

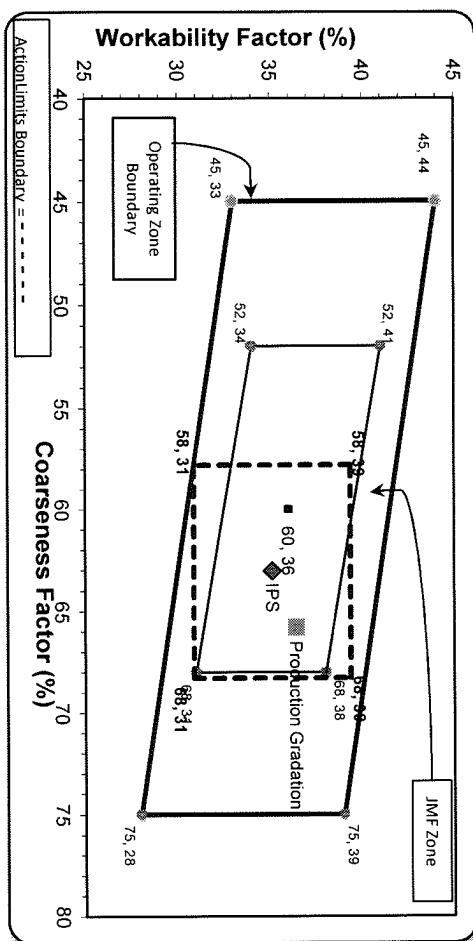
Verify this number is 100%

Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	97.8	100.0	100.0	98.8	1.2	1.2
3/4"	73.8	100.0	100.0	85.6	13.2	14.4
1/2"	38.9	100.0	100.0	66.0	19.6	34.0
3/8"	23.6	80.0	100.0	56.5	9.5	43.5
#4	5.3	21.8	96.9	41.1	15.4	58.9
#8	2.6	7.3	84.4	33.9	7.2	66.1
#16	2.2	4.2	69.5	27.8	6.1	72.2
#30	2.1	3.7	49.8	20.3	7.5	79.7
#50	2.0	3.5	19.4	8.7	11.6	91.3
#100	1.9	3.3	3.8	2.7	6.0	97.3
LBW	1.3	2.9	0.6	1.1	1.6	98.9

*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max.
 nom. max. #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max.
 nom. max. #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when
 a 2" max. size (nom. Max. 1.5") aggregate is used.

Production Gradation	<input checked="" type="radio"/> Batch Plant Gradations	<input type="radio"/> Aggregate Supplier Gradations
Coarseness Factor:	66	Workability Factor:
		34
		Adjusted WF
		36.4

Initial Production Sample (IPS)	Coarseness Factor:	63
	Workability Factor:	35



Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.1	0.9	0.9
3/4"	90.3	8.8	9.7
1/2"	69.2	21.1	30.8
3/8"	59.1	10.1	40.9
#4	41.8	17.3	58.2
#8	35.1	6.6	64.9
#16	28.5	6.6	71.5
#30	21.2	7.3	78.8
#50	8.7	12.5	91.3
#100	1.8	7.0	98.2
LBW	0.7	1.0	99.3



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PREPARED BY:
 SM, LLC Technical Service

Approved By:



2470 Auburn Road
Auburn Hills, MI 48432

Plant S36-Superior Auburn Hills

Product 1051-6AA LS

Name/Title Doug Storey / QC Technician

Period: 04/26/2020 - 05/02/2020

Report Date 05/05/2020

Procedure	Sieve/Test	Result	Unit	6AA LS
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	100-100
	1" (25mm)	97.8	%	95-100
	3/4" (19mm)	73.8	%	
	1/2" (12.5mm)	38.9	%	30-60
	3/8" (9.5mm)	23.6	%	
	#4 (4.75mm)	5.3	%	0-8
	#8 (2.36mm)	2.6	%	
	#16 (1.18mm)	2.2	%	
	#30 (.6mm)	2.1	%	
	#50 (.3mm)	2.0	%	
	#100 (.15mm)	1.9	%	
	#200 (75µm)	1.47	%	
	Wash Loss (#200/75um)	1.3	%	0-2
	Total Moisture	3.14	%	



2470 Auburn Road
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Plant S36-Superior Auburn Hills

Product 1067-26A Mod LS

Name/Title Doug Storey / QC Technician

Period: 04/26/2020 - 05/02/2020

Report Date 05/05/2020

Procedure	Sieve/Test	Result	Unit	26A LS Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	
	1" (25mm)	100.0	%	
	3/4" (19mm)	100.0	%	100-100
	1/2" (12.5mm)	95.3	%	95-100
	3/8" (9.5mm)	80.0	%	60-95
	#4 (4.75mm)	21.8	%	5-30
	#8 (2.36mm)	7.3	%	0-12
	#16 (1.18mm)	4.2	%	
	#30 (.6mm)	3.7	%	
	#50 (.3mm)	3.5	%	
	#100 (.15mm)	3.3	%	
	#200 (75µm)	3.0	%	
	Wash Loss (#200/75um)	2.9	%	0-3
	Total Moisture	3.90	%	



2470 Auburn Road
Auburn Hills, MI 48432

Plant S36-Superior Auburn Hills

Product 1022-2NS GR

Name/Title Doug Storey / QC Technician

Period: 04/26/2020 - 05/02/2020

Report Date 05/05/2020

Procedure	Sieve/Test	Result	Unit	2NS GR Spec
	3/8" (9.5mm)	100.0	%	100-100
	#4 (4.75mm)	96.9	%	95-100
	#8 (2.36mm)	84.4	%	65-95
	#16 (1.18mm)	69.5	%	35-75
	#30 (.6mm)	49.8	%	20-55
	#50 (.3mm)	19.4	%	10-30
	#100 (.15mm)	3.8	%	0-10
	#200 (75µm)	0.9	%	
	FM	2.76		2.6-3
	Wash Loss (#200/75um)	0.6	%	0-3
	Total Moisture	3.44	%	