

Aggregate Optimization Chart

PLANT #: **P-102**

Sample Date: 3/6/26

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 3/7/2026 through 3/13/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1400	8.34	2.69	46.7
26A	58-003	Stoneco	420	2.50	2.69	14.0
2NS	63-114	Highland	1180	7.14	2.65	39.3
Total Wt			3000	17.98		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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	74.1	100.0	100.0	87.9	12.1	12.1
1/2"	28.6	99.1	100.0	66.6	21.4	33.4
3/8"	11.4	83.4	100.0	56.3	10.2	43.7
#4	3.6	11.5	97.3	41.6	14.8	58.4
#8	3.2	5.0	82.0	34.4	7.1	65.6
#16	2.8	3.8	67.1	28.2	6.2	71.8
#30	2.4	3.1	48.9	20.8	7.4	79.2
#50	2.2	2.3	21.6	9.8	10.9	90.2
#100	2.0	1.6	3.9	2.7	7.2	97.3
LBW	1.6	1.4	0.9	1.3	1.4	98.7

*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 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.



Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

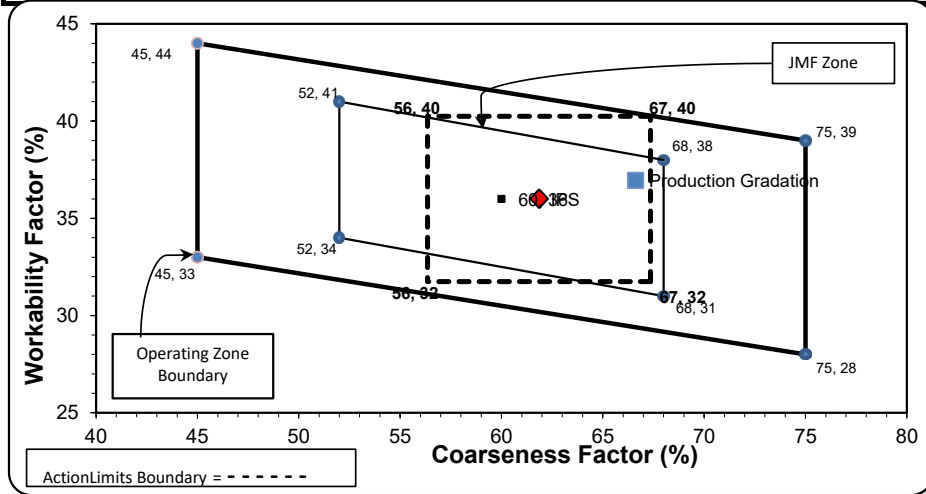
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	67	Workability Factor:	34	Adjusted WF	36.9
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Coarseness Factor:	62
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Workability Factor:	36
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Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7

PREPARED BY:
 SM, LLC Technical Service

Approved By:
 Nancy Donahue



Daily Summary Report

Date Friday, March 6 2026

Sample Id	-1989642457	1989642455	-1989642453
Plant	S102 Superior Novi	S102 Superior Novi	S102 Superior Novi
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec
Sample Type	QA	QA	QA
Time	17:27	17:28	17:28
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		100.0	100.0
3/4" (19mm)		74.1	100.0
1/2" (12.5mm)		28.6	99.1
3/8" (9.5mm)	100.0	11.4	83.4
#4 (4.75mm)	97.3	3.6	11.5
#8 (2.36mm)	82.0	3.2	5.0
#16 (1.18mm)	67.1	2.8	3.8
#30 (.6mm)	48.9	2.4	3.1
#50 (.3mm)	21.6	2.2	2.3
#100 (.15mm)	3.9	2.0	1.6
#200 (75µm)	1.1	1.83	1.4
Pan	0.0	0.00	0.0
FM	2.79		
Wash Loss (#200/75um)	0.9	1.6	1.4
Total Moisture	2.30	2.19	3.32

Aggregate Optimization Chart

PLANT #: **P-103**

Sample Date: 3/6/26

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 3/7/2026 through 3/13/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1400	8.34	2.69	46.7
26A	58-003	Stoneco	420	2.50	2.69	14.0
2NS	63-114	Highland	1180	7.14	2.65	39.3
Total Wt			3000	17.98		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"	99.3	100.0	100.0	99.7	0.3	0.3
3/4"	75.7	100.0	100.0	88.7	11.0	11.3
1/2"	28.9	99.9	100.0	66.8	21.9	33.2
3/8"	12.5	84.3	100.0	57.0	9.8	43.0
#4	2.8	11.2	97.0	41.0	15.9	59.0
#8	1.9	2.3	81.8	33.4	7.6	66.6
#16	1.7	1.5	65.8	26.9	6.5	73.1
#30	1.5	1.2	47.3	19.5	7.4	80.5
#50	1.4	1.0	19.8	8.6	10.9	91.4
#100	1.3	0.9	3.3	2.0	6.6	98.0
LBW	1.1	0.8	1.1	1.1	1.0	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 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.



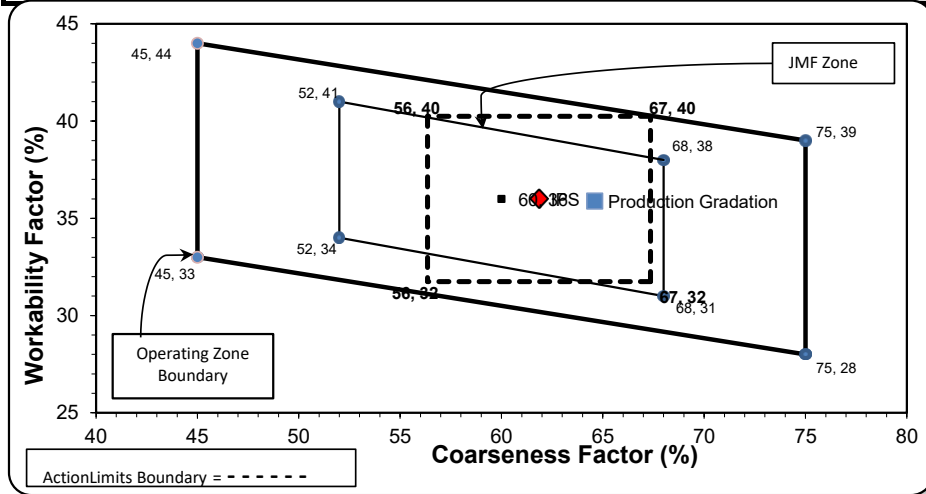
Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor: **65** Workability Factor: **33** Adjusted WF: **35.9**

Coarseness Factor: **62**
 Workability Factor: **36**



Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7

PREPARED BY:
 SM, LLC Technical Service

Approved By:
 Nancy Donahue



Daily Summary Report

Date Friday, March 6, 2026

	Sample Id -1989615982	410123009	-1989642456
Plant	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec
Sample Type	QA	QA	QA
Time	17:27	17:28	17:28
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		99.3	100.0
3/4" (19mm)		75.7	100.0
1/2" (12.5mm)		28.9	99.9
3/8" (9.5mm)	100.0	12.5	84.3
#4 (4.75mm)	97.0	2.8	11.2
#8 (2.36mm)	81.8	1.9	2.3
#16 (1.18mm)	65.8	1.7	1.5
#30 (.6mm)	47.3	1.5	1.2
#50 (.3mm)	19.8	1.4	1.0
#100 (.15mm)	3.3	1.3	0.9
#200 (75µm)	1.1	1.22	0.8
Pan	0.0	0.00	0.0
FM	2.85		
Wash Loss (#200/75um)	0.9	1.1	0.8
Total Moisture	3.85	2.66	2.69