

# Aggregate Optimization Chart

**PLANT #:** P-02

Contractor: \_\_\_\_\_

Sample Date: 5/23/26 (Holiday Weekend no production) Concrete Grade: **DM, 4500HP**

Dates Test Represents: 5/24/2026 through 6/2/2026 **5" SLUMP**

MDOT No.: \_\_\_\_\_

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1490	9.29	2.57	51.9
26A	71-47	Presque Isle	300	1.87	2.57	10.5
2NS	63-115	Ray Rd	1080	6.48	2.67	37.6
<b>Total Wt</b>			<b>2870</b>	<b>17.64</b>		<b>100.0</b>

<----- Verify this number is 100%



**Superior Materials, LLC**

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

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"	98.7	100.0	100.0	99.3	0.7	0.7
3/4"	87.7	100.0	100.0	93.6	5.7	6.4
1/2"	46.8	97.8	100.0	72.2	21.5	27.8
3/8"	24.2	85.6	100.0	59.1	13.0	40.9
#4	3.7	18.0	98.1	40.7	18.4	59.3
#8	2.3	4.9	84.4	33.5	7.3	66.5
#16	2.0	2.8	67.2	26.6	6.8	73.4
#30	1.9	2.3	48.2	19.4	7.3	80.6
#50	1.8	2.1	23.5	10.0	9.4	90.0
#100	1.7	2.0	4.8	2.9	7.1	97.1
LBW	1.5	1.8	0.4	1.1	1.8	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.

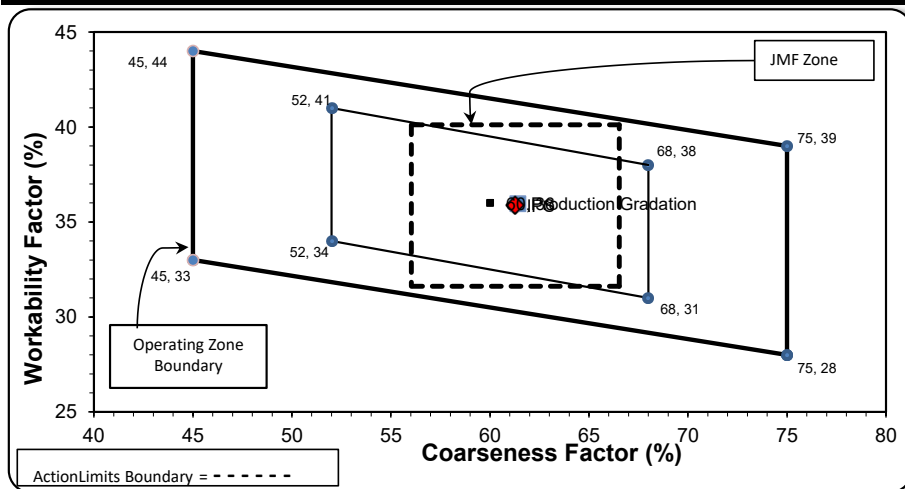
Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>61</b>	<b>Workability Factor:</b>	<b>33</b>	<b>36.0</b>
---------------------------	-----------	----------------------------	-----------	-------------

<b>Coarseness Factor:</b>	<b>61</b>
---------------------------	-----------

<b>Workability Factor:</b>	<b>36</b>
----------------------------	-----------



Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:  
SM, LLC Technical Service

Approved By:  
Nancy Donahue



# Daily Summary Report

Date Saturday, May 23, 2026

Sample Id	-1989638956	-1989638961	-1989638959
Plant	Superior Hoover	Superior Hoover	Superior Hoover
Product	1022 2NS GR	1054 6AA LS PI	1067 26A Mod LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec
Sample Type	QA	QA	QA
Time	09:00	09:00	09:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		98.7	100.0
3/4" (19mm)		87.7	100.0
1/2" (12.5mm)		46.8	97.8
3/8" (9.5mm)	100.0	24.2	85.6
#4 (4.75mm)	98.1	3.7	18.0
#8 (2.36mm)	84.4	2.3	4.9
#16 (1.18mm)	67.2	2.0	2.8
#30 (.6mm)	48.2	1.9	2.3
#50 (.3mm)	23.5	1.8	2.1
#100 (.15mm)	4.8	1.7	2.0
#200 (75µm)	0.6	1.61	1.8
Pan	0.0	0.00	0.0
FM	2.74		
Wash Loss (#200/75um)	0.4	1.5	1.8
Total Moisture	2.79	2.10	2.40



## Daily Summary Report

Comments

Query Selections  
Date Created 05/23/2026  
Date Range 05/24/2026 - 05/31/2026  
Plant Superior Hoover  
Sample Type QA

# Aggregate Optimization Chart

**PLANT #:** P-102

Contractor: \_\_\_\_\_

Sample Date: 5/23/26 (Holiday Weekend no production) Concrete Grade: **DM, 4500HP**

Dates Test Represents: 5/24/2026 through 6/2/2026 **5" SLUMP**

MDOT No.: \_\_\_\_\_

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	StoneCo	1580	9.41	2.69	53.4
26A	58-003	StoneCo	300	1.79	2.69	10.1
2NS	63-114	Highland	1080	6.51	2.66	36.5
<b>Total Wt</b>			<b>2960</b>	<b>17.71</b>		<b>100.0</b>

<----- Verify this number is 100%



**Superior Materials, LLC**

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

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"	99.4	100.0	100.0	99.7	0.3	0.3
3/4"	81.3	100.0	100.0	90.0	9.7	10.0
1/2"	44.2	99.4	100.0	70.2	19.9	29.8
3/8"	26.8	83.5	100.0	59.3	10.9	40.7
#4	6.0	15.2	98.6	40.7	18.5	59.3
#8	2.8	4.6	84.7	32.9	7.9	67.1
#16	2.1	3.0	68.7	26.5	6.4	73.5
#30	1.9	2.3	50.9	19.8	6.7	80.2
#50	1.7	1.9	27.3	11.1	8.8	88.9
#100	1.6	1.6	5.5	3.0	8.0	97.0
LBW	1.4	1.3	0.9	1.2	1.8	98.8

\*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.

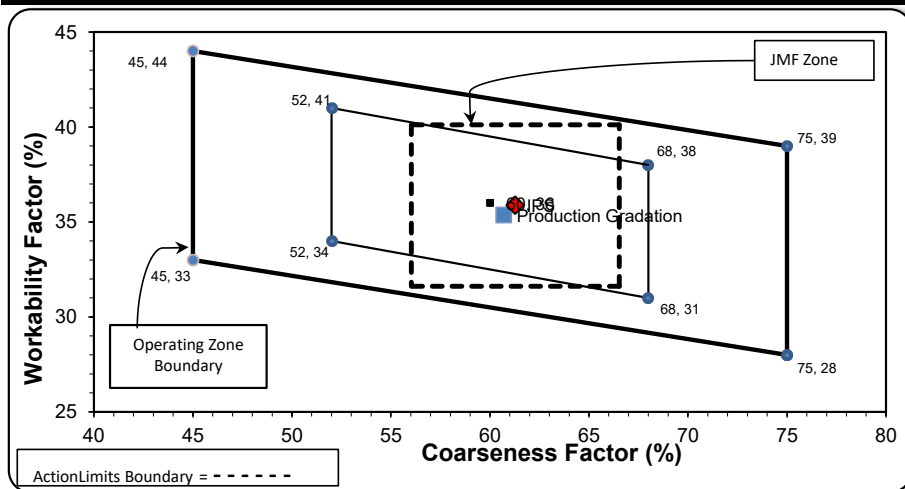
Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>61</b>	<b>Workability Factor:</b>	<b>33</b>	<b>35.4</b>
---------------------------	-----------	----------------------------	-----------	-------------

<b>Coarseness Factor:</b>	<b>61</b>
---------------------------	-----------

<b>Workability Factor:</b>	<b>36</b>
----------------------------	-----------



Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:  
SM, LLC Technical Service

Approved By:  
Nancy Donahue



# Daily Summary Report

Date Saturday 23, 2026

	-1989638967	-1989638969	-1989638968
Sample Id	-1989638967	-1989638969	-1989638968
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	11:00	11:00	11:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		99.4	100.0
3/4" (19mm)		81.3	100.0
1/2" (12.5mm)		44.2	99.4
3/8" (9.5mm)	100.0	26.8	83.5
#4 (4.75mm)	98.6	6.0	15.2
#8 (2.36mm)	84.7	2.8	4.6
#16 (1.18mm)	68.7	2.1	3.0
#30 (.6mm)	50.9	1.9	2.3
#50 (.3mm)	27.3	1.7	1.9
#100 (.15mm)	5.5	1.6	1.6
#200 (75µm)	1.1	1.48	1.4
Pan	0.0	0.00	0.0
FM	2.64		
Wash Loss (#200/75um)	0.9	1.4	1.3
Total Moisture	2.64	2.20	2.29



## Daily Summary Report

Comments

Query Selections  
Date Created 05/23/2026  
Date Range 05/24/2026 - 05/31/2026  
Plant Superior Novi  
Sample Type QA

# Aggregate Optimization Chart

**PLANT #:** P-103

Contractor: \_\_\_\_\_

Sample Date: 5/23/26 (Holiday Weekend no production) Concrete Grade: **DM, 4500HP**

Dates Test Represents: 5/24/2026 through 6/2/2026 **5" SLUMP**

MDOT No.: \_\_\_\_\_

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	StoneCo	1580	9.41	2.69	53.4
26A	58-003	StoneCo	300	1.79	2.69	10.1
2NS	63-114	Highland	1080	6.51	2.66	36.5
<b>Total Wt</b>			<b>2960</b>	<b>17.71</b>		<b>100.0</b>

<----- Verify this number is 100%



**Superior Materials, LLC**

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

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"	99.4	100.0	100.0	99.7	0.3	0.3
3/4"	82.5	100.0	100.0	90.7	9.0	9.3
1/2"	39.8	99.3	100.0	67.8	22.9	32.2
3/8"	23.0	85.5	100.0	57.4	10.4	42.6
#4	4.1	12.2	98.3	39.3	18.1	60.7
#8	2.1	3.3	84.8	32.4	6.9	67.6
#16	1.7	2.3	69.5	26.5	5.9	73.5
#30	1.5	1.9	51.6	19.8	6.7	80.2
#50	1.4	1.7	25.3	10.2	9.7	89.8
#100	1.3	1.5	4.5	2.5	7.7	97.5
LBW	1.1	1.3	1.0	1.1	1.4	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.

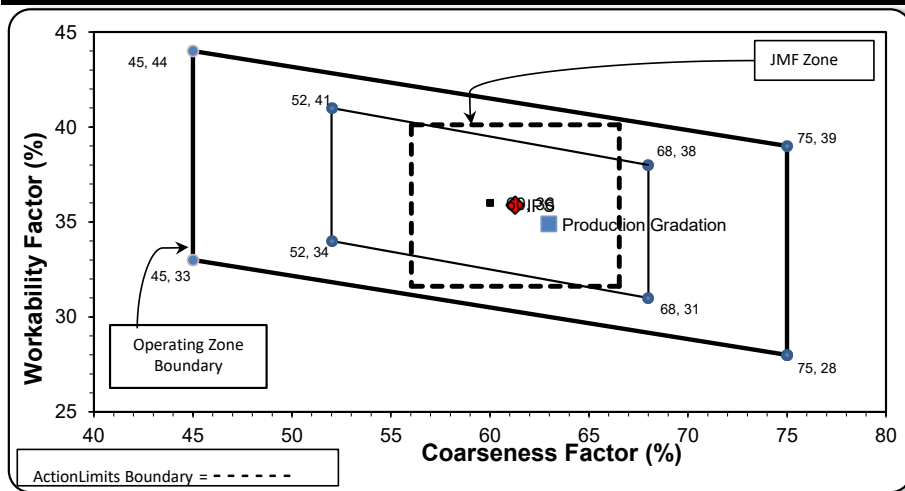
Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>63</b>	<b>Workability Factor:</b>	<b>32</b>	<b>34.9</b>
---------------------------	-----------	----------------------------	-----------	-------------

<b>Coarseness Factor:</b>	<b>61</b>
---------------------------	-----------

<b>Workability Factor:</b>	<b>36</b>
----------------------------	-----------



Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:  
SM, LLC Technical Service

Approved By:  
Nancy Donahue



# Daily Summary Report

Date Saturday, May 23,

2026 Sample Id	-1989638971	-1989638976	-1989638975
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	10:00	10:00	10:00

2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		99.4	100.0
3/4" (19mm)		82.5	100.0
1/2" (12.5mm)		39.8	99.3
3/8" (9.5mm)	100.0	23.0	85.5
#4 (4.75mm)	98.3	4.1	12.2
#8 (2.36mm)	84.8	2.1	3.3
#16 (1.18mm)	69.5	1.7	2.3
#30 (.6mm)	51.6	1.5	1.9
#50 (.3mm)	25.3	1.4	1.7
#100 (.15mm)	4.5	1.3	1.5
#200 (75µm)	1.2	1.19	1.4
Pan	0.0	0.00	0.0
FM	2.66		
Wash Loss (#200/75um)	1.0	1.1	1.3
Total Moisture	2.68	1.99	2.53



## Daily Summary Report

Comments

Query Selections  
Date Created 05/23/2026  
Date Range 05/24/2026 - 05/31/2026  
Plant Superior Brighton  
Sample Type QA