

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **p11**

Sample Date: 3/10/25

Concrete Grade: **S2M, 3500HP**

Dates Test Represents: 3/11/2025 through 3/17/2025

Contractor: _____

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.56	2.62	45.9
26A	71-47	Presque Isle	420	2.57	2.62	13.8
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3
Total Wt			3050	18.57		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"	88.6	100.0	100.0	94.8	5.2	5.2
1/2"	54.4	96.8	100.0	78.6	16.1	21.4
3/8"	35.7	83.3	100.0	68.2	10.4	31.8
#4	6.3	15.3	96.8	44.0	24.1	56.0
#8	2.9	4.5	81.7	34.9	9.1	65.1
#16	2.5	2.9	65.5	28.0	6.9	72.0
#30	2.4	2.4	49.3	21.3	6.6	78.7
#50	2.3	2.3	24.4	11.2	10.1	88.8
#100	2.2	2.1	4.8	3.2	8.0	96.8
LBW	1.9	1.6	0.8	1.4	1.8	98.6

*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

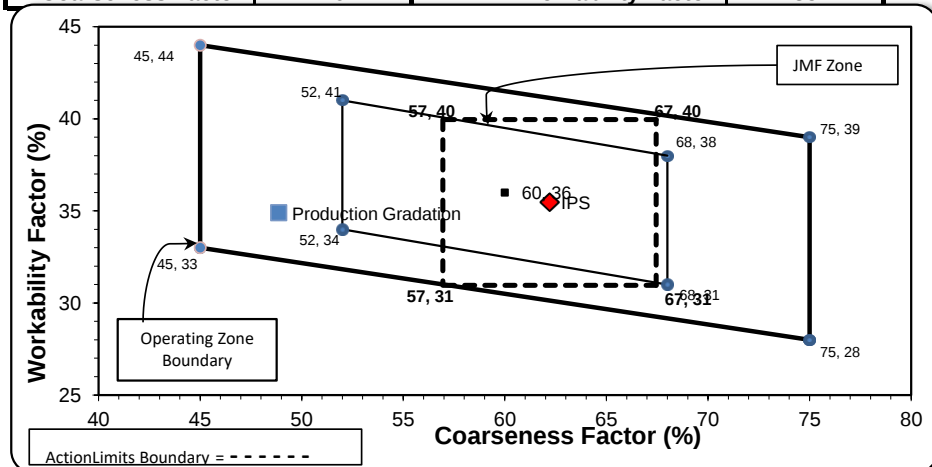
30701 W. 10 Mile Rd.

Suite 500

Farmington Hills, MI 48336

Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Coarseness Factor:	49	Workability Factor:	35
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Initial Production Sample (IPS)

Coarseness Factor:		62	
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"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
SM, LLC Technical Service

Approved By:

Daily Summary Report

Date Friday, March 14, 2025

Sample Id	-1989649743	-1989634711	-674927766
Plant	S000 Superior Onsite	S000 Superior Onsite	S000 Superior Onsite
Product	1051 6AA LS	1022 2NS GR	1067 26A Mod LS
Specification		2NS GR Spec	26A Mod LS Spec
Sample Type	QA	QA	QA
2" (50mm)	100.0		100.0
1 1/2" (37.5mm)	100.0		100.0
1" (25mm)	100.0		100.0
3/4" (19mm)	88.6		100.0
1/2" (12.5mm)	54.4		96.8
3/8" (9.5mm)	35.7	100.0	83.3
#4 (4.75mm)	6.3	96.8	15.3
#8 (2.36mm)	2.9	81.7	4.5
#16 (1.18mm)	2.5	65.5	2.9
#30 (.6mm)	2.4	49.3	2.4
#50 (.3mm)	2.3	24.4	2.3
#100 (.15mm)	2.2	4.8	2.1
#200 (75µm)	1.99	1.0	1.8
Pan	0.00	0.0	0.0
FM		2.78	
-#200 (75µm)		1.0	
Wash Loss (#200/75µm)	1.9	0.8	1.6
Total Moisture	2.5	2.1	3.2