Aggregate Optimization Chart

Production Gradation Nancy Donahue

PLANT #: p11

Contractor:

Sample Date: 2/24/26

Concrete Grade: **S2M, 3500HP**

Dates Test Represents: 2/25/2026 through 3/3/2026

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft^3	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.56	2.62	45.5
26A	71-47	Presque Isle	400	2.45	2.62	13.0
2NS	63-115	Ray Rd	1280	7.74	2.65	41.6
		Total Wt	**3080**	**18.75**		100.0

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

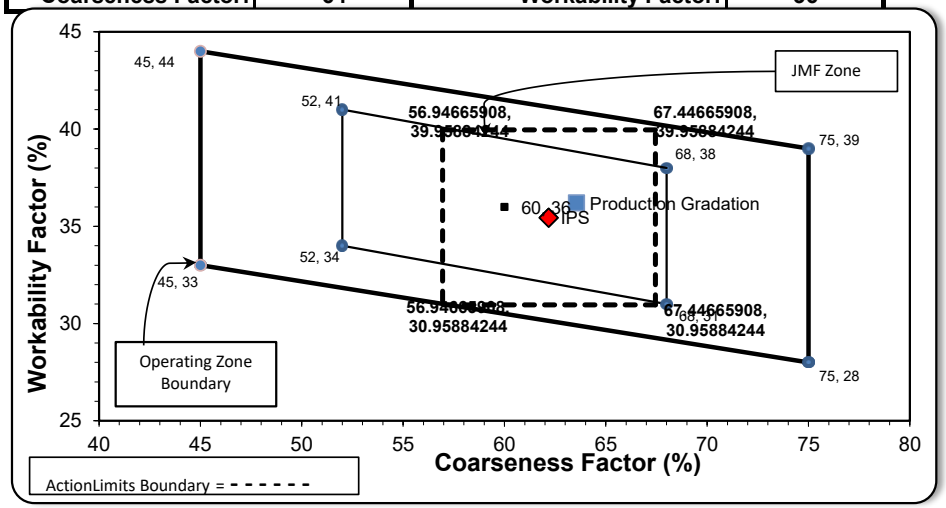
Superior Materials, LLC
30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 48336

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"	95.4	100.0	100.0	97.9	2.1	2.1
3/4"	71.4	100.0	100.0	87.0	10.9	13.0
1/2"	31.8	97.1	100.0	68.6	18.4	31.4
3/8"	15.9	82.2	100.0	59.5	9.2	40.5
#4	3.4	14.3	98.0	44.1	15.3	55.9
#8	2.7	4.7	82.7	36.2	7.9	63.8
#16	2.5	3.0	65.3	28.7	7.5	71.3
#30	2.3	2.5	47.4	21.1	7.6	78.9
#50	2.1	2.3	23.0	10.8	10.3	89.2
#100	1.9	2.2	4.0	2.8	8.0	97.2
LBW	1.6	2.0	0.5	1.2	1.6	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

Coarseness Factor:	64	Workability Factor:	36



Intial 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:
Nancy Donahue

EDW. C. LEVY CO.
8800 Dix Avenue, Detroit, MI 48209
(313) 843-7200

Daily Summary Report

Date	Tuesday, February 24, 2026		
Sample Id	-674962907	-1989642603	-1989642602
Plant	S000 Onsite Jefferson	S000 Onsite Jefferson	S000 Onsite Jefferson
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS
Specification	2NS GR Spec		26A Mod LS Spec
Sample Type	QA	QA	QA
Time	13:00	13:00	13:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		95.4	100.0
3/4" (19mm)		71.4	100.0
1/2" (12.5mm)		31.8	97.1
3/8" (9.5mm)	100.0	15.9	82.2
#4 (4.75mm)	98.0	3.4	14.3
#8 (2.36mm)	82.7	2.7	4.7
#16 (1.18mm)	65.3	2.5	3.0
#30 (.6mm)	47.4	2.3	2.5
#50 (.3mm)	23.0	2.1	2.3
#100 (.15mm)	4.0	1.9	2.2
#200 (75µm)	0.6	1.68	2.0
Pan	0.0	0.00	0.0
FM	2.80	2.80	2.80
-#200 (75um)	0.6	0.6	0.6
Wash Loss (#200/75um)	0.5	1.6	2.0
Total Moisture	2.3	2.7	2.5