

# Aggregate Optimization Chart

**PLANT #:** **P102**

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 <sup>3</sup>	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
<b>Total Wt</b>			<b>3000</b>	<b>17.98</b>		<b>100.0</b>

----- 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"	84.2	100.0	100.0	92.6	7.4	7.4
1/2"	43.0	98.5	100.0	73.2	19.4	26.8
3/8"	24.3	77.5	100.0	61.5	11.7	38.5
#4	4.5	6.5	97.8	41.5	20.0	58.5
#8	2.1	1.6	85.5	34.8	6.6	65.2
#16	1.6	1.2	67.0	27.3	7.6	72.7
#30	1.4	1.1	45.4	18.7	8.6	81.3
#50	1.4	1.0	15.0	6.7	12.0	93.3
#100	1.3	1.0	1.3	1.3	5.4	98.7
LBW	1.1	0.8	0.3	0.7	0.5	99.3

\*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.

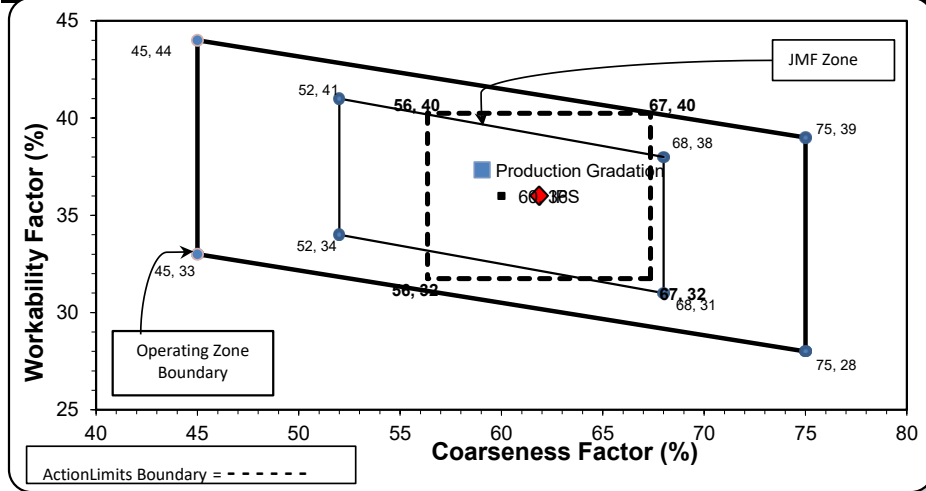


**Superior Materials, LLC**  
 30701 W. 10 Mile Rd.  
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Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	<b>59</b>	Workability Factor:	<b>35</b>	Adjusted WF	<b>37.3</b>	Coarseness Factor:	<b>62</b>
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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

# Aggregate Optimization Chart

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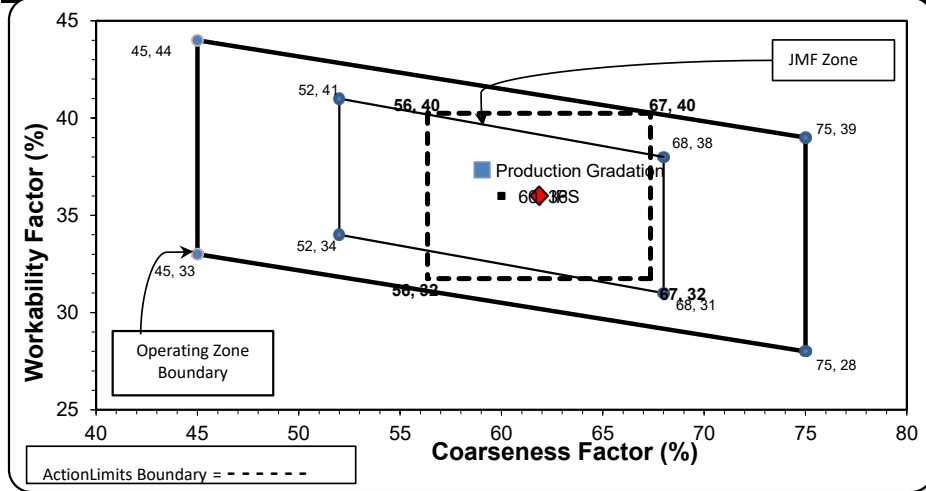
Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

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Coarseness Factor:	<b>62</b>
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Workability Factor:	<b>36</b>
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