

Aggregate Optimization Chart

PLANT #: **P-O2**

Sample Date: 12/19/25

Concrete Grade: **S2M, 3500HP**

Dates Test Represents: 12/19/2025 through 12/26/2025

Contractor: _____

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1480	9.05	2.62	48.1
26A	71-47	Presque Isle	400	2.45	2.62	13.0
2NS	63-115	Ray Rd	1200	7.26	2.65	39.0
Total Wt			3080	18.76		100.0

←----- Verify this number is 100%



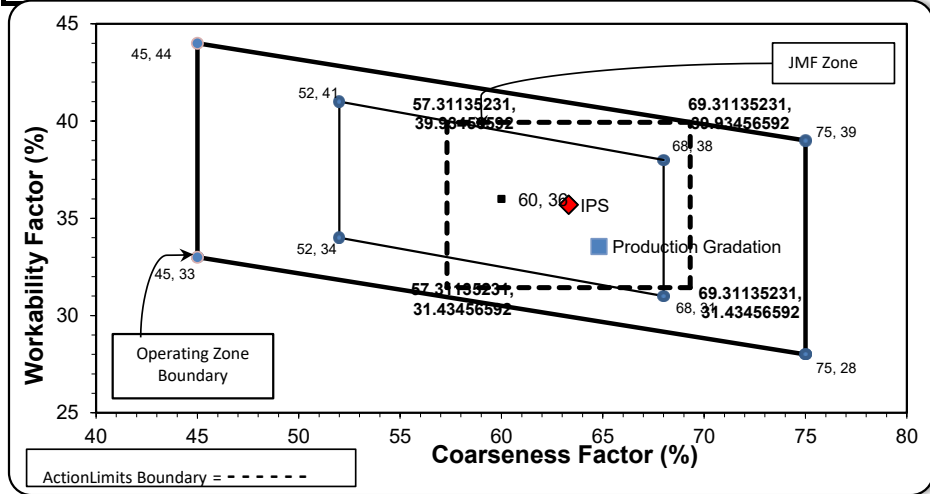
Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

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"	96.8	100.0	100.0	98.5	1.5	1.5
3/4"	78.1	100.0	100.0	89.5	9.0	10.5
1/2"	34.9	94.8	100.0	68.0	21.4	32.0
3/8"	16.3	78.1	100.0	56.9	11.1	43.1
#4	2.1	12.8	96.9	40.4	16.5	59.6
#8	1.5	3.8	83.0	33.6	6.9	66.4
#16	1.4	2.2	66.1	26.7	6.8	73.3
#30	1.3	1.8	50.1	20.4	6.3	79.6
#50	1.3	1.6	24.8	10.5	9.9	89.5
#100	1.3	1.6	4.2	2.5	8.0	97.5
LBW	1.1	1.4	0.8	1.0	1.4	99.0

*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:	65	Workability Factor:	34
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Initial Production Sample (IPS)

Coarseness Factor:	63		
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"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

PREPARED BY:
 SM, LLC Technical Service

Approved By:
 Nancy Donahue

Aggregate Optimization Chart

PLANT #: P-11

Sample Date: 12/19/25

Concrete Grade: S2M, 3500HP

Dates Test Represents: 12/19/2025 through 12/26/2025

Contractor: _____

MDOT No.: _____



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

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
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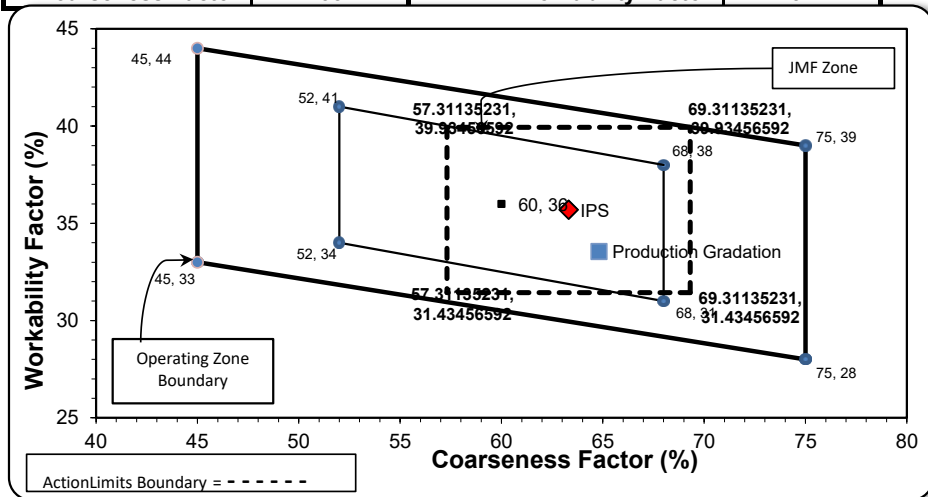
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3/4"	78.1	100.0	100.0	89.5	9.0	10.5
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