

Aggregate Optimization Chart

PLANT #: **P-02**

Sample Date: 12/19/25

Concrete Grade: **DM, 4500HP**

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
6AA	71-47	Presque Isle	1480	9.05	2.62	50.5
26A	71-47	Presque Isle	300	1.83	2.62	10.2
2NS	63-115	Ray Rd	1150	6.95	2.65	39.2
Total Wt			2930	17.84		100.0

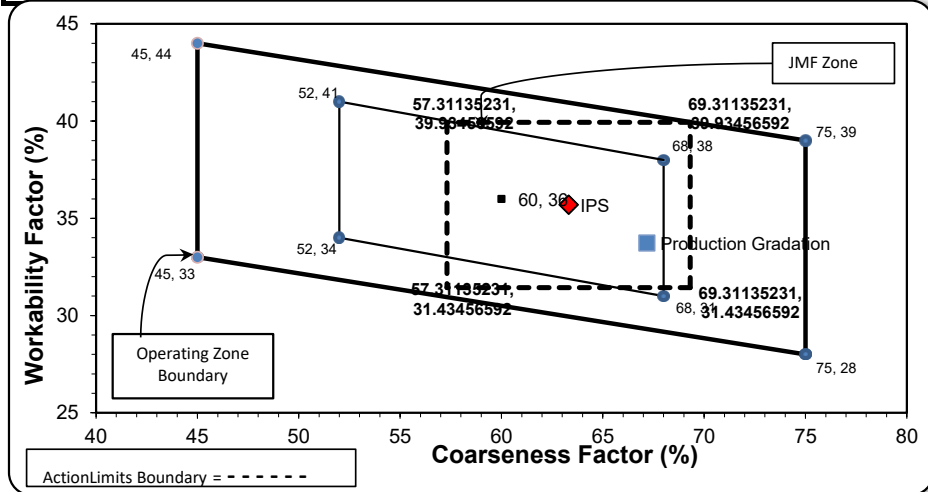
<----- Verify this number is 100%

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"	96.8	100.0	100.0	98.4	1.6	1.6
3/4"	78.1	100.0	100.0	88.9	9.4	11.1
1/2"	34.9	94.8	100.0	66.6	22.4	33.4
3/8"	16.3	78.1	100.0	55.5	11.1	44.5
#4	2.1	12.8	96.9	40.4	15.1	59.6
#8	1.5	3.8	83.0	33.7	6.7	66.3
#16	1.4	2.2	66.1	26.9	6.8	73.1
#30	1.3	1.8	50.1	20.5	6.4	79.5
#50	1.3	1.6	24.8	10.6	10.0	89.4
#100	1.3	1.6	4.2	2.5	8.1	97.5
LBW	1.1	1.4	0.8	1.0	1.5	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:	67	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: **DM, 4500HP**

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

Contractor: _____

MDOT No.: _____



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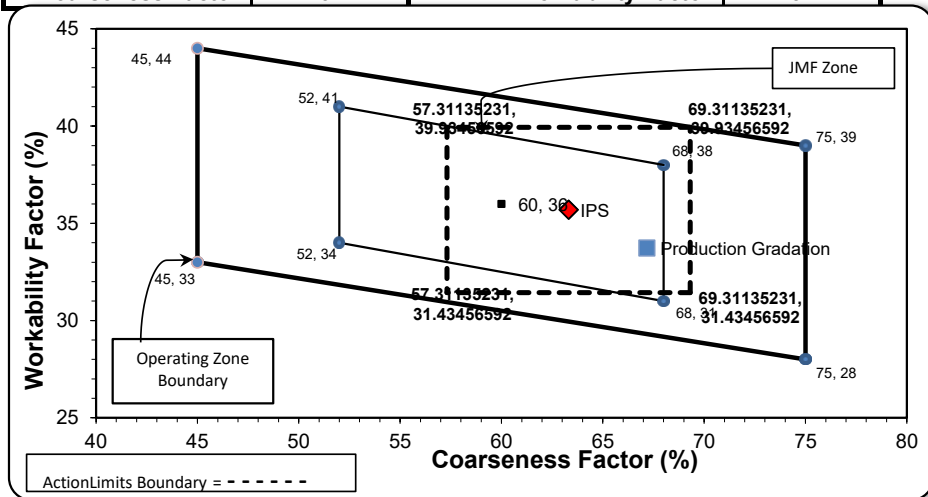
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