Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-02**

Sample Date: 2/17/26

Dates Test Represents: 2/18/2026 through 2/24/2026

Concrete Grade: **DM, 4500HP**

Contractor:

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft^3	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1300	7.95	2.62	45.1
26A	71-47	Presque Isle	400	2.45	2.62	13.9
2NS	63-115	Ray Rd	1180	7.14	2.65	41.0
		Total Wt	**2880**	**17.53**		100.0

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

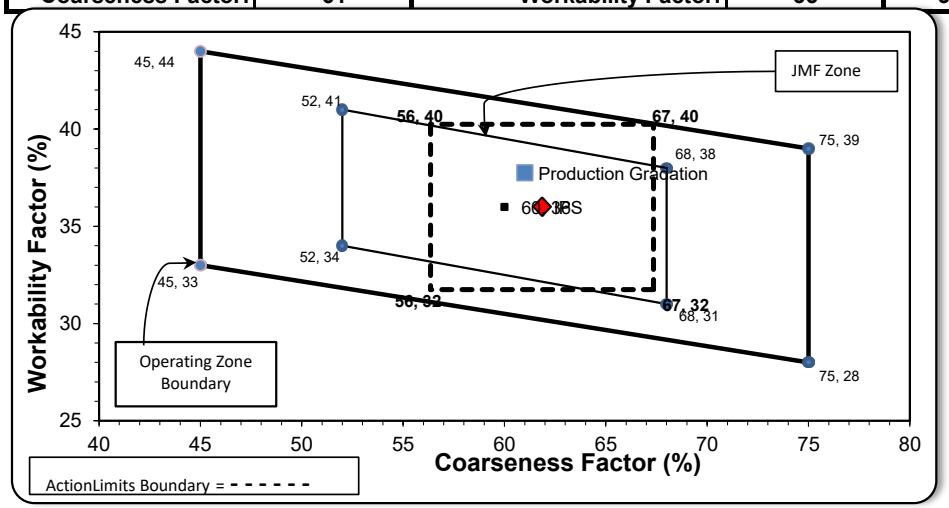
Superior Materials, LLC
30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 48336

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"	98.4	100.0	100.0	99.3	0.7	0.7
3/4"	83.1	100.0	100.0	92.4	6.9	7.6
1/2"	38.5	96.1	100.0	71.7	20.7	28.3
3/8"	18.4	80.8	100.0	60.5	11.2	39.5
#4	2.3	15.4	97.2	43.0	17.5	57.0
#8	1.7	4.3	82.7	35.2	7.8	64.8
#16	1.5	2.4	64.6	27.5	7.8	72.5
#30	1.4	2.0	49.0	21.0	6.5	79.0
#50	1.3	1.8	25.3	11.2	9.8	88.8
#100	1.3	1.7	5.8	3.2	8.0	96.8
LBW	1.1	1.6	1.0	1.1	2.1	98.9

*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:	61	Workability Factor:	35	Adjusted WF 37.7



Intial Production Sample (IPS)

Coarseness Factor:	62
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"	95.0	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

Production Gradation Report

PLANT #: **P-11**

Sample Date: 2/17/26

Dates Test Represents: 2/18/2026 through 2/24/2026

Concrete Grade: **DM, 4500HP**

Contractor:

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft^3	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1300	7.95	2.62	45.1
26A	71-47	Presque Isle	400	2.45	2.62	13.9
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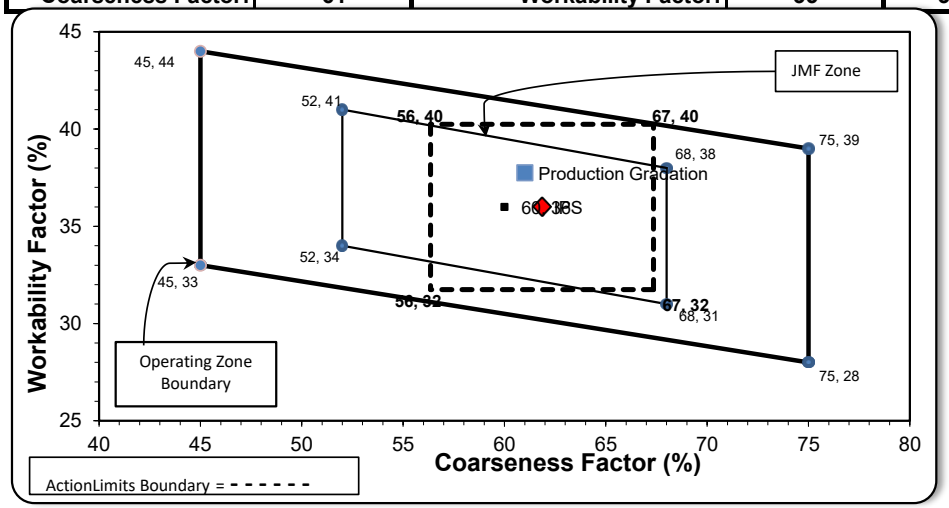

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