

Aggregate Optimization Chart

MIX ID'S: DDD0K7E7 and DDD0K7E9

Production Gradation Report

PLANT #: **P-103**

Sample Date: 2/13/17

Concrete Grade: **DM**

Contractor: _____

Dates Test Represents: 2/13/2017 to 2/19/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1400	8.34	2.69	46.8
26A	58-003	Stoneco	370	2.20	2.69	12.4
2NS	81-93	Burmeister	1220	7.41	2.64	40.8
Total Wt			2990	17.95		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"	99.0	100.0	100.0	99.5	0.5	0.5
3/4"	76.6	100.0	100.0	89.0	10.5	11.0
1/2"	44.0	99.4	100.0	73.7	15.3	26.3
3/8"	16.3	84.4	100.0	58.9	14.8	41.1
#4	4.8	18.2	99.1	44.9	13.9	55.1
#8	2.2	4.5	87.6	37.3	7.6	62.7
#16	1.7	2.4	73.6	31.1	6.2	68.9
#30	1.5	2.0	54.6	23.2	7.9	76.8
#50	1.3	1.8	20.6	9.2	14.0	90.8
#100	1.2	1.7	3.4	2.2	7.1	97.8
LBW	1.2	1.4	1.2	1.2	0.9	98.8

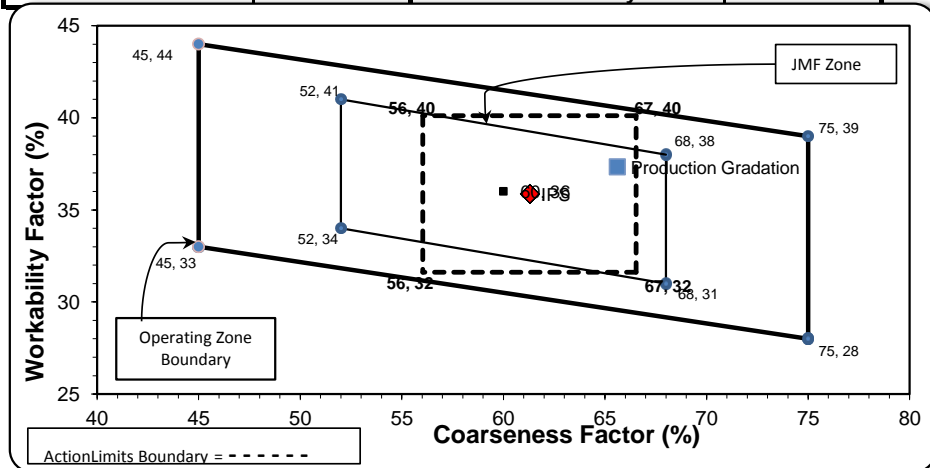


Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

*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 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 66 **Workability Factor: 37**



Initial Production Sample (IPS)

Coarseness Factor: 61		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"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:
 SM, LLC Technical Service

Approved BY:

Aggregate Optimization Chart

MIX ID'S: DDD0K7E7 and DDD0K7E9

Production Gradation Report

PLANT #: **P-38**

Sample Date: 2/13/17

Concrete Grade: **DM**

Contractor: _____

Dates Test Represents: 2/13/2017 to 2/19/2017

MDOT No.: _____

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3/4"	76.6	100.0	100.0	89.0	10.5	11.0
1/2"	44.0	99.4	100.0	73.7	15.3	26.3
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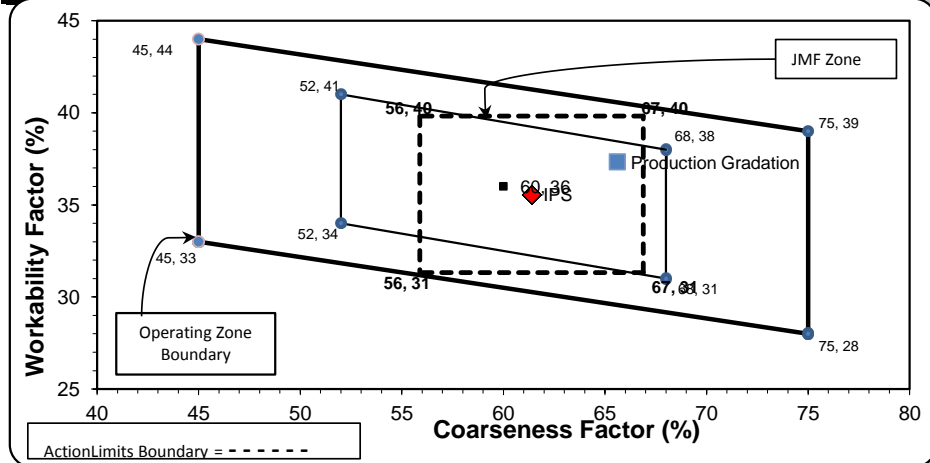
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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

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Workability Factor:		36	
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