

Aggregate Optimization Chart

MIX ID'S: DDD0K7E7 and DDD0K7E9

Production Gradation Report

PLANT #: **P-103**

Sample Date: 3/6/17

Concrete Grade: **DM**

Contractor: _____

Dates Test Represents: 3/6/2017 to 3/12/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1420	8.46	2.69	47.5
26A	58-003	Stoneco	350	2.09	2.69	11.7
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"	99.6	100.0	100.0	99.8	0.2	0.2
3/4"	84.1	100.0	100.0	92.4	7.4	7.6
1/2"	46.9	99.2	100.0	74.7	17.8	25.3
3/8"	24.8	86.7	100.0	62.7	12.0	37.3
#4	5.7	17.7	99.3	45.3	17.4	54.7
#8	3.1	4.0	86.6	37.3	8.0	62.7
#16	2.3	2.0	69.3	29.6	7.7	70.4
#30	2.1	1.6	48.7	21.1	8.5	78.9
#50	2.0	1.4	16.1	7.7	13.4	92.3
#100	1.8	1.4	2.4	2.0	5.7	98.0
LBW	1.6	1.2	1.0	1.3	0.7	98.7

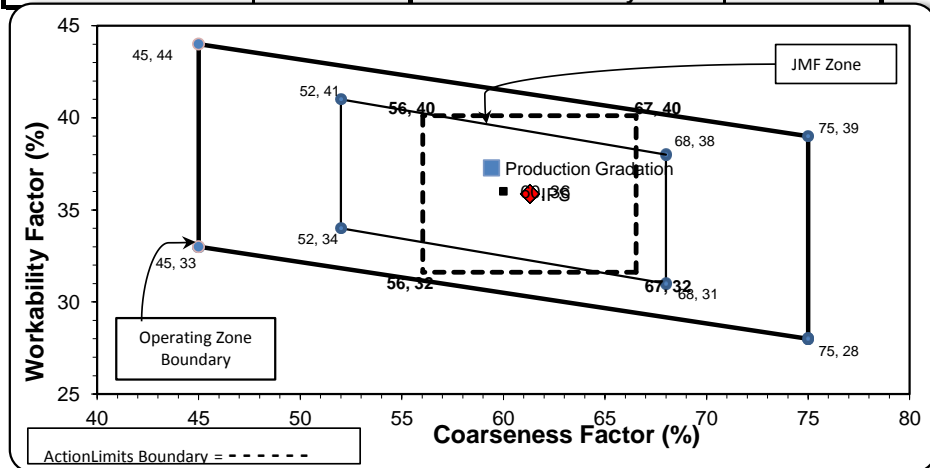


Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

*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:	59	Workability Factor:	37
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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: 3/6/17

Concrete Grade: **DM**

Contractor: _____

Dates Test Represents: 3/6/2017 to 3/12/2017

MDOT No.: _____

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LBW	1.6	1.2	1.0	1.3	0.7	98.7

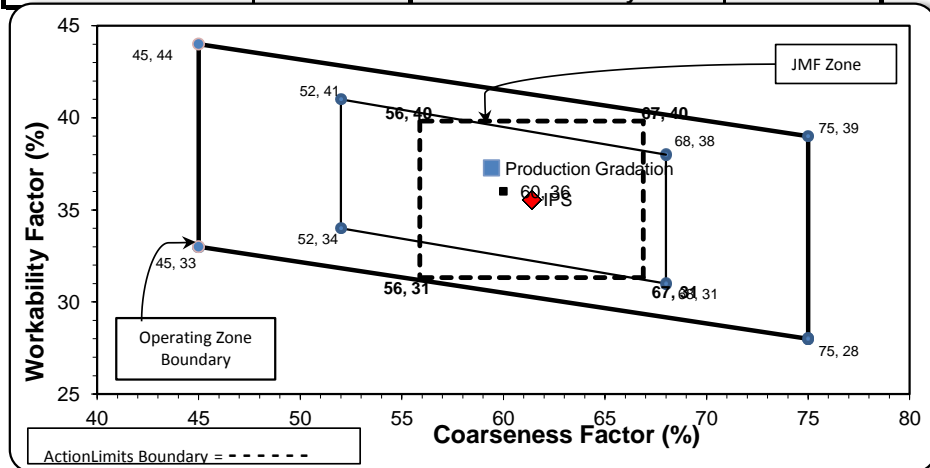


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#50	8.7	11.8	91.3
#100	1.6	7.1	98.4
LBW	1.1	0.6	98.9

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