

Aggregate Optimization Chart

MIX ID'S: DDD0K7E7 and DDD0K7E9

Production Gradation Report

PLANT #: **P-103**

Sample Date: 2/20/17

Concrete Grade: **DM**

Contractor: _____

Dates Test Represents: 2/20/2017 to 2/26/2017

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"	99.5	100.0	100.0	99.8	0.2	0.2
3/4"	80.5	100.0	100.0	90.9	8.9	9.1
1/2"	37.6	99.7	100.0	70.7	20.1	29.3
3/8"	18.7	87.6	100.0	60.4	10.3	39.6
#4	4.0	21.2	99.6	45.1	15.3	54.9
#8	2.7	4.8	88.8	38.1	7.0	61.9
#16	2.1	2.1	66.2	28.3	9.8	71.7
#30	1.9	1.7	47.6	20.5	7.7	79.5
#50	1.8	1.5	24.5	11.0	9.5	89.0
#100	1.8	1.4	4.8	3.0	8.1	97.0
LBW	1.4	1.3	1.9	1.6	1.4	98.4

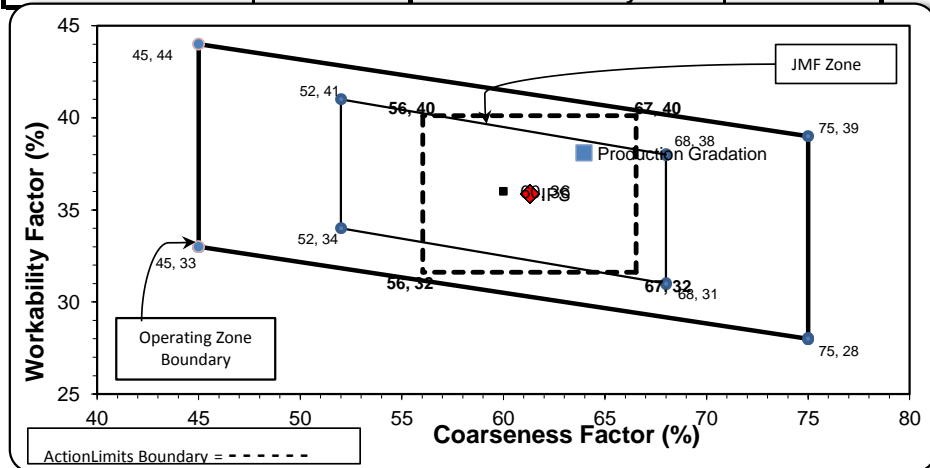


Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

*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: 64 **Workability Factor: 38**



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:

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Production Gradation Report

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Dates Test Represents: 2/20/2017 to 2/26/2017

MDOT No.: _____

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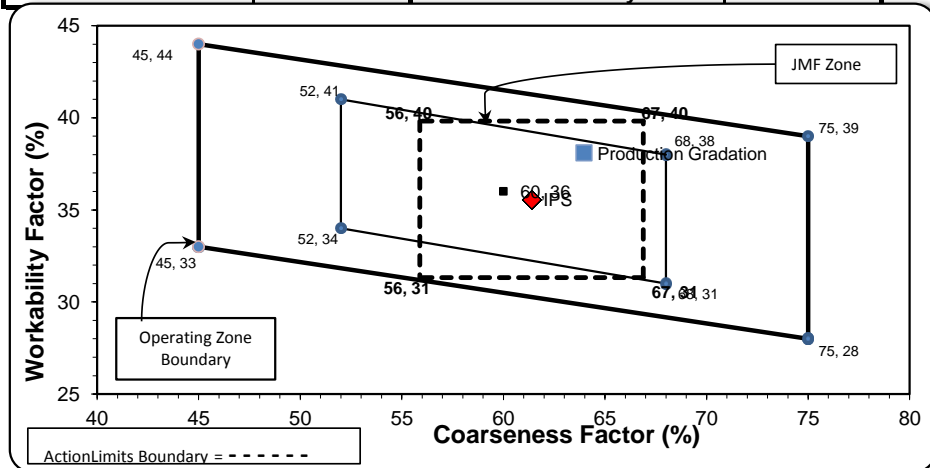
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