

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-103**

Sample Date: 3/20/17

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 3/20/2017 to 3/26/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1490	8.88	2.69	47.2
26A	58-003	Stoneco	375	2.23	2.69	11.9
2NS	81-93	Burmeister	1290	7.83	2.64	40.9
Total Wt			3155	18.94		100.0

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



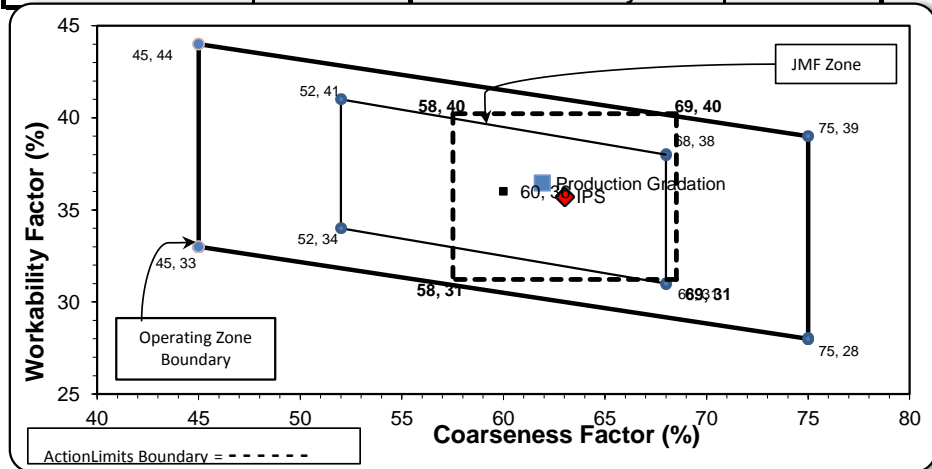
Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	83.4	100.0	100.0	92.2	7.8	7.8
1/2"	41.6	99.5	100.0	72.4	19.8	27.6
3/8"	19.2	90.0	100.0	60.7	11.7	39.3
#4	2.2	14.7	99.5	43.5	17.2	56.5
#8	1.6	3.5	86.3	36.5	7.0	63.5
#16	1.7	1.7	69.8	29.5	6.9	70.5
#30	1.6	1.3	48.7	20.8	8.7	79.2
#50	1.6	1.2	15.6	7.3	13.5	92.7
#100	1.6	1.2	2.9	2.1	5.2	97.9
LBW	1.2	1.0	1.2	1.2	0.9	98.8

*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:	62	Workability Factor:	36
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Initial Production Sample (IPS)

Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

PREPARED BY:
 SM, LLC Technical Service

Approved BY:

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-38**

Sample Date: 3/20/17

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 3/20/2017 to 3/26/2017

MDOT No.: _____

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1/2"	41.6	99.5	100.0	72.4	19.8	27.6
3/8"	19.2	90.0	100.0	60.7	11.7	39.3
#4	2.2	14.7	99.5	43.5	17.2	56.5
#8	1.6	3.5	86.3	36.5	7.0	63.5
#16	1.7	1.7	69.8	29.5	6.9	70.5
#30	1.6	1.3	48.7	20.8	8.7	79.2
#50	1.6	1.2	15.6	7.3	13.5	92.7
#100	1.6	1.2	2.9	2.1	5.2	97.9
LBW	1.2	1.0	1.2	1.2	0.9	98.8

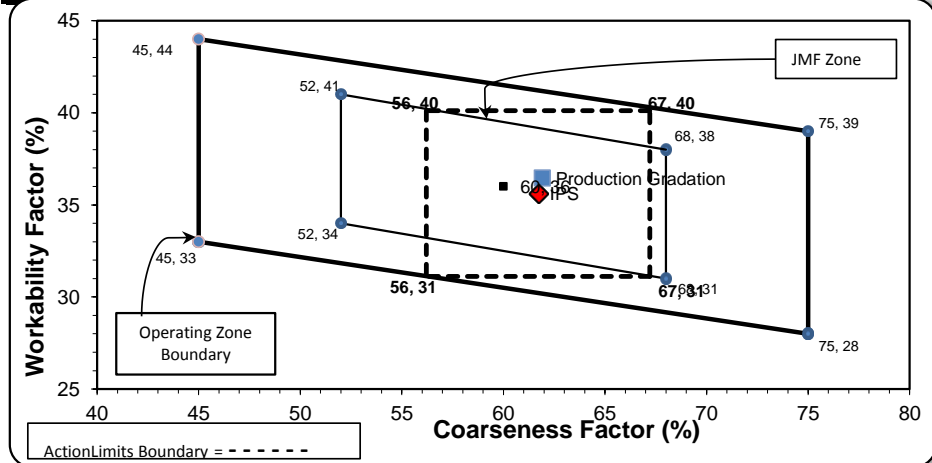


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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 62 **Workability Factor: 36**



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#8	35.6	7.8	64.4
#16	28.4	7.2	71.6
#30	21.8	6.7	78.2
#50	9.1	12.6	90.9
#100	1.7	7.4	98.3
LBW	1.1	0.6	98.9

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 SM, LLC Technical Service

Approved By: