

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-32**

Sample Date: 12/4/17

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 12/4/2017 to 12/10/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1530	9.36	2.62	49.2
26A	71-47	Presque Isle	355	2.17	2.62	11.4
2NS	95-13	Smelter Bay	1225	7.41	2.65	39.4
Total Wt			3110	18.94		100.0

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



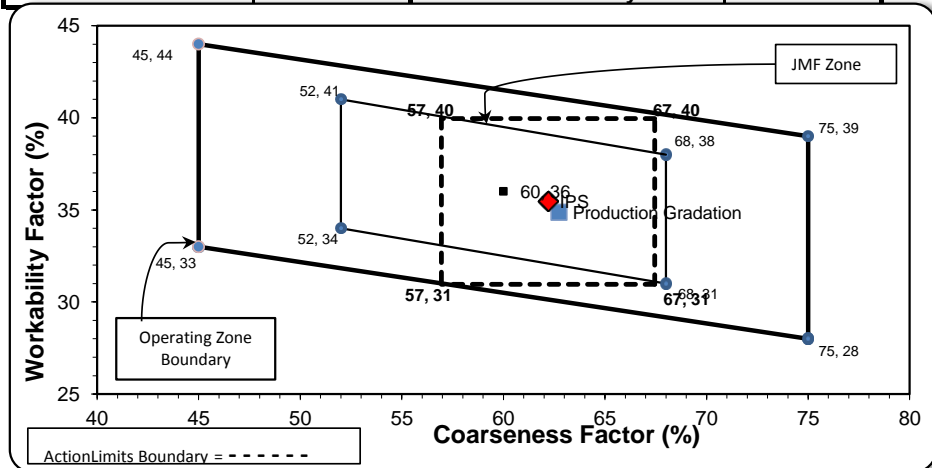
Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

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"	99.5	100.0	100.0	99.8	0.2	0.2
3/4"	89.5	100.0	100.0	94.8	4.9	5.2
1/2"	44.1	96.6	100.0	72.1	22.7	27.9
3/8"	19.8	87.6	100.0	59.1	13.0	40.9
#4	2.3	25.1	96.8	42.1	17.0	57.9
#8	1.5	6.0	84.9	34.9	7.3	65.1
#16	1.3	2.7	69.6	28.4	6.5	71.6
#30	1.2	2.0	48.7	20.0	8.4	80.0
#50	1.1	1.9	22.2	9.5	10.5	90.5
#100	1.1	1.7	7.5	3.7	5.8	96.3
LBW	1.0	1.5	2.3	1.6	2.1	98.4

*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:	63	Workability Factor:	35
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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"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
 SM, LLC Technical Service

Approved By: