

Aggregate Optimization Chart

MIX ID'S: DDP154E7, DDP154E8, DDP164E7 and DDP164E8

Production Gradation Report

PLANT #: **P-101**

Sample Date: 4/10/17

Concrete Grade: **P1M**

Contractor: _____

Dates Test Represents: 4/10/2017 to 4/16/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	950	5.81	2.62	30.9
IA	71-47	Presque Isle	820	5.02	2.62	26.7
2NS	63-115	Ray Road	1300	7.86	2.65	42.3
Total Wt			3070	18.69		100.0

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



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

Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	97.1	100.0	100.0	99.1	0.9	0.9
1"	54.0	100.0	100.0	85.8	13.3	14.2
3/4"	15.0	98.1	100.0	73.2	12.6	26.8
1/2"	3.9	79.1	100.0	64.7	8.5	35.3
3/8"	2.8	49.3	100.0	56.4	8.3	43.6
#4	2.1	6.7	96.6	43.3	13.0	56.7
#8	2.0	3.0	78.4	34.6	8.7	65.4
#16	1.9	2.2	60.2	26.7	8.0	73.3
#30	1.9	1.9	43.5	19.5	7.2	80.5
#50	1.8	1.8	20.0	9.5	10.0	90.5
#100	1.7	1.6	3.6	2.5	7.0	97.5
LBW	1.4	1.3	0.4	0.9	1.5	99.1

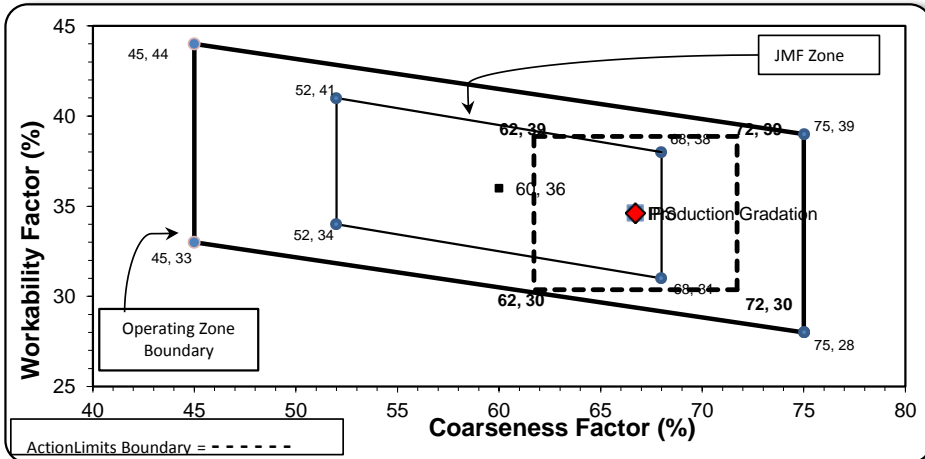
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor:	67	Workability Factor:	35
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Initial Production Sample (IPS)

Coarseness Factor:	67		
Workability Factor:	35		
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#100	2.5	7.0	97.5
LBW	0.9	1.5	99.1



PREPARED BY:
 SM, LLC Technical Service

Approved By:

Aggregate Optimization Chart

MIX ID'S: DDP154E7, DDP154E8, DDP164E7 and DDP164E8

Production Gradation Report

PLANT #: **P-39**

Sample Date: 4/10/17

Concrete Grade: **P1M**

Contractor: _____

Dates Test Represents: 4/10/2017 to 4/16/2017

MDOT No.: _____

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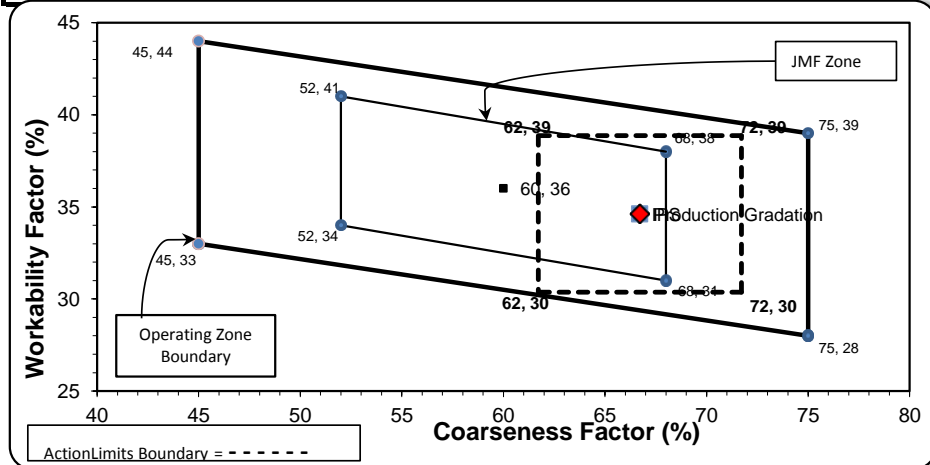


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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 67 **Workability Factor: 35**



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