

Aggregate Optimization Chart

MIX ID'S: DDT0F7ET

Production Gradation Report

PLANT #: **P-102**

Sample Date: 12/10/18

Concrete Grade: **TM**

Contractor: _____

Dates Test Represents: 12/11/2018 through 12/17/2018

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1500	8.94	2.69	49.3
26A	58-003	Stoneco	345	2.06	2.69	11.3
2NS	47-16	Buno Rd	1200	7.26	2.65	39.4
Total Wt			3045	18.25		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"	80.2	100.0	100.0	90.2	9.6	9.8
1/2"	43.8	99.8	100.0	72.3	18.0	27.7
3/8"	20.9	87.0	100.0	59.6	12.7	40.4
#4	4.1	24.7	96.0	42.7	16.9	57.3
#8	2.6	6.6	85.8	35.8	6.8	64.2
#16	2.0	3.1	72.3	29.8	6.0	70.2
#30	1.8	2.4	53.0	22.0	7.8	78.0
#50	1.8	2.2	18.2	8.3	13.7	91.7
#100	1.6	2.1	2.5	2.0	6.3	98.0
LBW	1.4	1.9	0.3	1.0	1.0	99.0

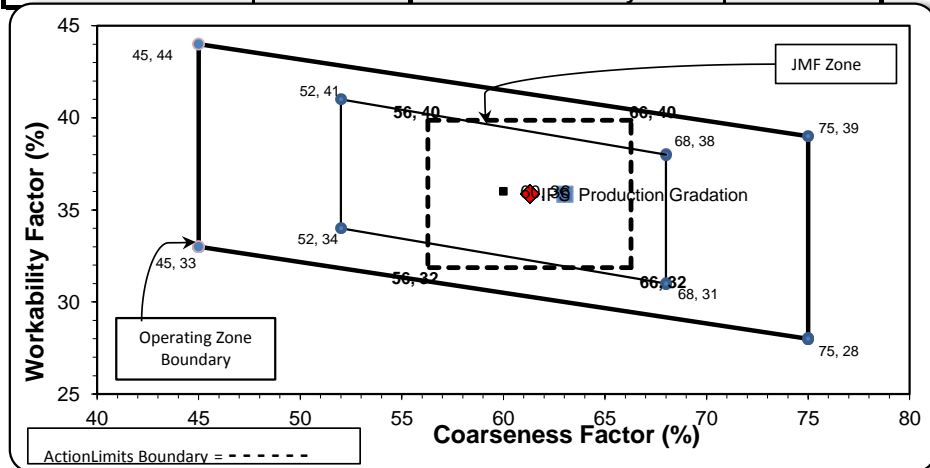
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when a 2" max. size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



Superior Materials, LLC
 30701 W. 10 Mile Rd.
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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor:	63	Workability Factor:	36
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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: DDT0F7ET

Production Gradation Report

PLANT #: **P-36**

Sample Date: 12/10/18

Concrete Grade: **TM**

Contractor: _____

Dates Test Represents: 12/11/2018 through 12/17/2018

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1345	8.23	2.62	44.9
26A	71-47	Presque Isle	450	2.75	2.62	15.0
2NS	63-92	AA Grange Hall	1200	7.26	2.65	40.1
Total Wt			2995	18.24		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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	84.6	100.0	100.0	93.1	6.9	6.9
1/2"	35.5	97.2	100.0	70.6	22.5	29.4
3/8"	15.5	80.1	100.0	59.1	11.6	40.9
#4	1.8	11.3	97.6	41.6	17.5	58.4
#8	1.3	2.6	84.8	35.0	6.7	65.0
#16	1.2	1.6	68.6	28.3	6.7	71.7
#30	1.1	1.4	47.6	19.8	8.5	80.2
#50	1.1	1.3	18.6	8.1	11.6	91.9
#100	1.0	1.2	2.7	1.7	6.4	98.3
LBW	0.9	1.0	0.3	0.7	1.0	99.3

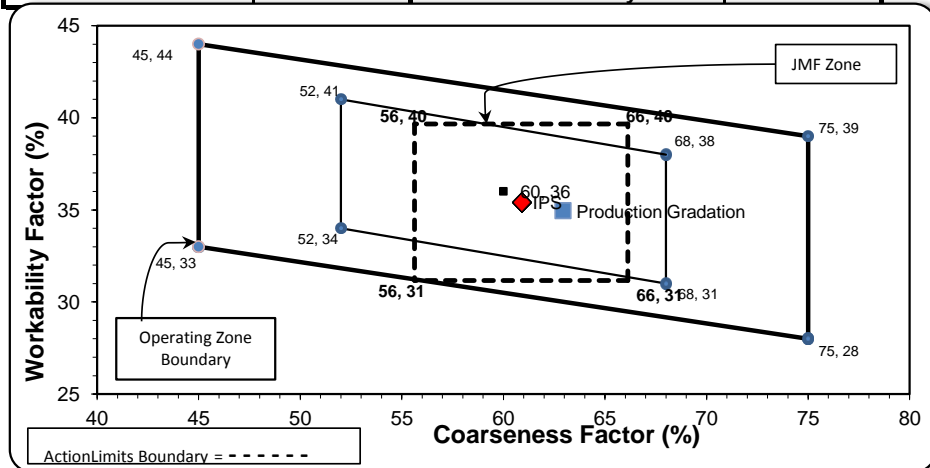


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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: **63** Workability Factor: **35**



Initial Production Sample (IPS)

Coarseness Factor: 61		Workability Factor: 35	
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"	95.9	4.1	4.1
1/2"	74.3	21.5	25.7
3/8"	60.7	13.6	39.3
#4	42.6	18.1	57.4
#8	35.4	7.2	64.6
#16	28.7	6.7	71.3
#30	20.5	8.2	79.5
#50	9.8	10.7	90.2
#100	2.1	7.7	97.9
LBW	0.9	1.2	99.1

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