

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-32**

Sample Date: **1/31/22**

Dates Test Represents: **2/1/2022** through **2/7/2022**

Concrete Grade: **DM**

Contractor: _____

MIDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	Contribution %
6AA	71-47	Presque Isle	1455	8.90	2.62	50.1
26A	71-47	Presque Isle	300	1.83	2.62	10.3
2NS	95-013	Smelter Bay	1150	6.95	2.65	39.6
Total Wt			2905	17.69		100.0

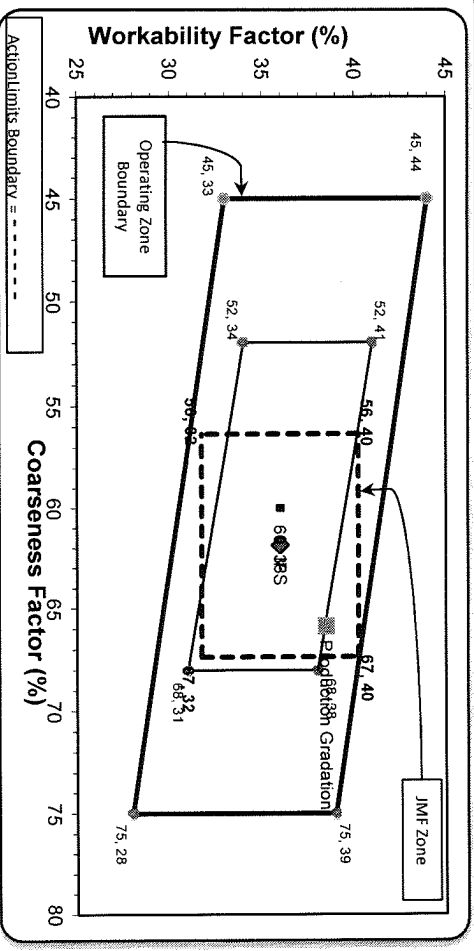
Verify this number is 100%

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"	99.0	100.0	100.0	99.5	0.5	0.5
3/4"	81.2	100.0	100.0	90.6	8.9	9.4
1/2"	34.4	100.0	100.0	66.9	23.7	33.1
3/8"	17.9	89.9	100.0	57.8	9.1	42.2
#4	5.2	27.5	96.2	43.5	14.3	56.5
#8	3.8	8.8	83.8	36.0	7.5	64.0
#16	3.1	4.9	68.8	29.3	6.7	70.7
#30	2.6	3.7	48.5	20.9	8.4	79.1
#50	2.2	2.8	23.4	10.7	10.2	89.3
#100	1.9	2.4	6.8	3.9	6.8	96.1
LBW	1.6	1.9	1.4	1.6	2.3	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. 1.5") aggregate is used.

Production Gradation	<input checked="" type="radio"/> Batch Plant Gradations	<input type="radio"/> Aggregate Supplier Gradations
Coarseness Factor:	66	Workability Factor: 36
Adjusted WF		38.5

Initial Production Sample (IPS)	Coarseness Factor:	62
	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"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7



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

PREPARED BY:
 SM, LLC Technical Service

Approved By: _____

Plant 958-JMT
 Product 1022-2NS GR - Smelter Bay
 Period: 01/30/2022 - 02/05/2022

Name/Title Doug Storey / QC Technician
 Report Date 02/04/2022

Procedure	Sieve/Test	Result	Unit	2NS GR Spec
	3/8" (9.5mm)	100.0	%	100-100
	#4 (4.75mm)	96.2	%	95-100
	#8 (2.36mm)	83.8	%	65-95
	#16 (1.18mm)	68.8	%	35-75
	#30 (.6mm)	48.5	%	20-55
	#50 (.3mm)	23.4	%	10-30
	#100 (.15mm)	6.8	%	0-10
	#200 (75µm)	1.7	%	
	FM	2.73		2.6-3
	Wash Loss (#200/75um)	1.4	%	0-3
	Total Moisture	4.2	%	

Plant 958-JMT
 Product 1067-26A Mod LS
 Period: 01/30/2022 - 02/05/2022

Name/Title Doug Storey / QC Technician
 Report Date 02/04/2022

Procedure	Sieve/Test	Result	Unit	26A Mod LS Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	
	1" (25mm)	100.0	%	
	3/4" (19mm)	100.0	%	100-100
	1/2" (12.5mm)	97.6	%	95-100
	3/8" (9.5mm)	89.9	%	60-95
	#4 (4.75mm)	27.5	%	5-30
	#8 (2.36mm)	8.8	%	0-12
	#16 (1.18mm)	4.9	%	
	#30 (.6mm)	3.7	%	
	#50 (.3mm)	2.8	%	
	#100 (.15mm)	2.4	%	
	#200 (75µm)	2.1	%	
	Wash Loss (#200/75um)	1.9	%	0-3
	Total Moisture	3.6	%	

Edw. C. Levy Co.

JMT
8911 W. Jefferson
Detroit, 48209
(313) 429-2429

Plant 958-JMT

Product 1054-6AA LS PI

Period: 01/30/2022 - 02/05/2022

Name/Title Doug Storey / QC Technician

Report Date 02/04/2022

Procedure	Sieve/Test	Result	Unit	6AA LS PI Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	100-100
	1" (25mm)	99.0	%	95-100
	3/4" (19mm)	81.2	%	
	1/2" (12.5mm)	34.4	%	30-60
	3/8" (9.5mm)	17.9	%	
	#4 (4.75mm)	5.2	%	0-8
	#8 (2.36mm)	3.8	%	
	#16 (1.18mm)	3.1	%	
	#30 (.6mm)	2.6	%	
	#50 (.3mm)	2.2	%	
	#100 (.15mm)	1.9	%	
	#200 (75µm)	1.7	%	
	Wash Loss (#200/75µm)	1.6	%	0-2
	Total Moisture	2.5	%	