Delta Sand and Gravel, Inc.

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Summary of Aggregate Test Results

Bank Run / Sized Double-Washed Crushed Gravel Stone / Processed Base Materials / Fine Aggregate/Sands

% Pass	Bank * Run Gravel	1-1/2"	1"	3/4"	3/4" Blend	3/8"	1/4"	% Pass	2" Minus Screened Gravel	3" Minus CRUSHED Gravel	3/4" Minus CRUSHED Gravel	1/2" Minus CRUSHED Gravel	Hardpak	% Pass	Coarse W-Sand	Winter Sand	Regular Sand	Concrete Sand	Gravel Stone Dust	Beach Sand	Mason Sand
2"	89	100						2"	100	98				2"							
1-1/2"	83	98	100					1-1/2"	99	92	100			1-1/2"							
1"	78	55	98	100	100			1"	92	82	99		100	1"							
3/4"	74	10	26	95	96			3/4"	86	74	91		93	3/4"							
1/2"	70	1	1	43	61	100		1/2"	80	65	81	100	75	1/2"	100						
3/8"	66		1	12	38	92	100	3/8"	76	59	76	87	63	3/8"	94	100	100				
#4	59			1	7	21	25	#4	67	49	66	57	43	#4	74	92	93	100	100		
#8	50				1	2	1	#8	57	41	57	43	34	#8	62	79	82	90	82	100	100
#16	39					1	1	#16	43	33	36	36	23	#16	44	55	62	73	56	99	94
#30	24							#30	23	20	32	24	14	#30	18	20	29	41	39	98	74
#50	11							#50	11	9	16	18	7	#50	6	6	9	13	26	81	35
#100	5							#100	5	4	7	11	3	#100	2	2	3	4	18	26	8
#200	3							#200	2	3	4	6	1	#200	1	1	1	2	6	4	1
Dry Rodded Wt (pcf)		94.6	100.5	94.8	97.0	97.4	91.2							FM		3.22	2.79	2.79	1.96	2.89	
Max Dry Unit W (Proctor) (pcf)									135.5	139.3	129.8						118.4	127.6	102.2		
Optimum Moisture (%)									6.9	6.0	7.7						11.2	9.2	18.0		
Maximum Wear (Abrasion) (%)					30.0																
Bulk Density (OD)					2.601												2.600				
Relative Density (SSD)					2.641												2.670				
Apparent Density					2.709												2.750				
Absorption (%)					1.50												1.70				
Soundness (%) (Na)					2.00												5.00				

only the portion smaller than 3" is tested

Title 5 Sand / Crushed Trap Rock / Processed Trap (Quarry) Rock

% Pass	Title 5 Sand	Title 5 % Passing #4 Sieve	% Pass	1-1/2"	3/4"	3/8"	% Pass	Dense Graded	3/4" TRG (Trap Rock Gravel)	1/2" TRG (Trap Rock Gravel)	Quarry Stone Dust	% Pass
2"	100		2"	100			2"					2"
1-1/2"	99		1-1/2"	94			1-1/2"	100				1-1/2"
1"	97		1"	40	100		1"	86				1"
3/4"	93		3/4"	11	95		3/4"	80	100			3/4"
1/2"	89		1/2"	2	25	100	1/2"	72	97			1/2"
3/8"	88		3/8"	1	3	95	3/8"	66	86	100	100	3/8"
#4	83	100	#4	1	2	28	#4	53	52	79	98	#4
#8	76	92	#8		1	3	#8	32	32	49	68	#8
#16	62	75	#16			2	#16	21	21	27	42	#16
#30	35	42	#30				#30	18	15	17	28	#30
#50	14	17	#50				#50	12	10	11	20	#50
#100	5	6	#100				#100	9	9	7	15	#100
#200	2	2	#200				#200	5	6	3	10	#200
Dry Rodded Wt (pcf)				102.4	105.2	101.6					114.0	
Max Dry Unit W (Proctor) (pcf)								142.8	134.4			
Optimum Moisture (%)								8.7	10.0			
Maximum Wear (Abrasion) (%)				8.0	8.0	8.0						
Bulk Density (OD)				2.870	2.849	2.773					2.711	
Relative Density (SSD)				2.884	2.865	2.813					2.777	
Apparent Density				2.909	2.898	2.889					2.903	
Absorption (%)				0.50	0.60	1.42					2.40	

Customer is responsible for product selection & independent testing for job requirements.

Local Independent Test Labs:

S.W. Cole Engineering
13 Delta Drive, Unit 8
Londonderry, NH 03053
Phone: (603) 716.2111
Fax: (603) 716-2112

Allied Testing Laboratories
115 St. George Road
Springfield, MA 01104
Phone: (413) 736-1846
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66 Southgate Street
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