

Delta Sand and Gravel, Inc.

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Summary of Typical Aggregate Gradations & Test Results - March, 2018

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	1-1/2" Minus CRUSHED Gravel	3/4" Minus CRUSHED Gravel	1/2" Minus CRUSHED Gravel	Hardpak	% Pass	Winter Sand	Sand (Blacktop)	Concrete Sand	Gravel Stone Dust	Beach Sand	Mason Sand	% Pass
	2"								1-1/2"	1"	3/4"	3/8"									
2"	88							2"	100	100				2"							
1-1/2"	84	100						1-1/2"	97	94				1-1/2"							2"
1"	78	67	100	100	100			1"	91	80	100		1"								1"
3/4"	73	14	58	99	99			3/4"	85	73	92	91	3/4"								3/4"
1/2"	68	1	2	45	67	100		1/2"	78	66	80	100	1/2"								1/2"
3/8"	65	1	1	10	41	87	100	3/8"	73	62	74	90	63	3/8"	100	100		100			3/8"
#4	56			1	5	12	17	#4	62	54	64	63	45	#4	87	94	100	99			#4
#8	49				1	1	1	#8	53	48	56	47	34	#8	70	81	91	78		100	#8
#16	39					1	1	#16	41	40	47	35	25	#16	46	61	72	56	100	89	#16
#30	24							#30	24	26	32	26	16	#30	19	31	40	42	98	64	#30
#50	9							#50	10	12	15	18	8	#50	6	10	13	30	78	28	#50
#100	4							#100	5	4	6	11	4	#100	3	4	5	18	23	6	#100
#200	2							#200	2	2	2	6	2	#200	2	2	2	9	4	1	#200

Dry Rodded Wt (pcf)	94.2	100.5	105.2	100.0	99.1	93.3
Max Dry Unit W (Proctor) (pcf)						
Optimum Moisture (%)						
Maximum Wear (Abrasion) (%)				30.0		
Bulk Density (OD)				2.61		
Relative Density (SSD)				2.65		
Apparent Density				2.71		
Absorption (%)				1.40		
Soundness (%) (Na)				4.00		

143.2	138.8	131.9
9.2	6.9	8.9

FM	3.19	2.79	2.77	3.01	3.13
		116.1	132.0	102.2	
		7.6	9.1	18.0	
		2.64			
		2.67			
		2.72			
		1.10			
		6.00			

**only the portion smaller than 3" is tested*

Title 5 Sand		Title 5 % Passing #4 Sieve
% Pass	Title 5 Sand	
2"	100	
1-1/2"	99	
1"	97	
3/4"	95	
1/2"	92	
3/8"	89	
#4	84	100
#8	79	94
#16	72	86
#30	55	65
#50	25	30
#100	8	9
#200	2	2

Crushed Trap Rock				Processed Trap (Quarry) Rock					
% Pass	1-1/2"	3/4"	3/8"	2"	Dense Graded	1/2" TRG (Trap Rock Gravel)	1/2" TRG (Trap Rock Gravel)	Quarry Stone Dust	% Pass
					TRG (3/4" Trap Rock Gravel)				
2"	100			2"					2"
1-1/2"	96			1-1/2"	100				1-1/2"
1"	40	100		1"	86				1"
3/4"	12	98		3/4"	77	100			3/4"
1/2"	2	29	100	1/2"	72	92			1/2"
3/8"	1	4	99	3/8"	67	79	100	100	3/8"
#4		1	20	#4	52	50	75	98	#4
#8			4	#8	35	33	49	66	#8
#16			1	#16	21	20	29	40	#16
#30				#30	13	13	17	25	#30
#50				#50	8	8	10	16	#50
#100				#100	5	6	5	10	#100
#200				#200	3	4	3	6	#200

Dry Rodded Wt (pcf)			
Max Dry Unit W (Proctor) (pcf)			
Optimum Moisture (%)			
Maximum Wear (Abrasion) (%)			
Bulk Density (OD)			
Relative Density (SSD)			
Apparent Density			
Absorption (%)			

99.1	102.9	98.2
10.0	10.0	10.0
2.86	2.86	2.86
2.87	2.87	2.87
2.88	2.88	2.89
0.50	0.45	0.41

137.2	133.1
8.0	7.8

118.7
2.81
2.84
2.89
1.50

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
 Fax: (413) 736-1838

Advance Testing Company, Inc.

3348 Route 208
 Campbell Hall, NY 10916
 Phone: (845) 496.1600
 Fax: (845) 496.1398

Delta offers many more materials than are shown on this summary sheet. Refer to the current price sheet.