

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	1-1/2" 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	100				2"								
1-1/2"	86	98	100					1-1/2"	97	99	100			1-1/2"								
1"	81	55	98	100	100			1"	90	85	99		100	1"								
3/4"	77	10	26	96	96			3/4"	84	75	93		93	3/4"								
1/2"	72	1	1	45	61	100		1/2"	77	63	84	100	75	1/2"	100							
3/8"	69		1	13	36	90	100	3/8"	72	56	77	87	63	3/8"	94	100	100					
#4	62			1	6	16	22	#4	63	49	66	57	43	#4	74	92	94	100	100			
#8	55				1	1	1	#8	54	44	56	43	34	#8	62	77	83	90	82	100	100	
#16	44					1	1	#16	42	38	45	36	23	#16	44	53	62	71	56	99	94	
#30	24							#30	26	28	30	24	14	#30	18	22	29	38	39	98	74	
#50	8							#50	12	14	15	18	7	#50	6	6	9	13	26	81	35	
#100	3							#100	6	6	7	11	3	#100	2	2	3	4	18	26	8	
#200	1							#200	3	3	4	6	1	#200	1	1	1	1	6	4	1	

Dry Rodded Wt (pcf)	98.5	100.5	97.7	99.6	98.4	95.1								FM		3.20	2.84	2.79	1.96	2.89	
Max Dry Unit W (Proctor) (pcf)									132.4	132.5	108.3								116.9	127.6	102.2
Optimum Moisture (%)									6.7	6.2	8.1								11.0	9.2	18.0
Maximum Wear (Abrasion) (%)				30.0																	
Bulk Density (OD)				2.617																2.590	
Relative Density (SSD)				2.649																2.640	
Apparent Density				2.704																2.710	
Absorption (%)				1.200																1.70	
Soundness (%) (Na)				0.70																2.00	

*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"	Dense Graded	3/4" TRG (Trap Rock Gravel)	1/2" TRG (Trap Rock Gravel)	Quarry Stone Dust	% Pass
2"	100		2"	100			2"	100			2"
1-1/2"	99		1-1/2"	94			1-1/2"	100			1-1/2"
1"	96		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"	86		3/8"	1	3	95	3/8"	66	86	100	3/8"
#4	80	100	#4	1	2	28	#4	53	52	79	#4
#8	72	90	#8		1	3	#8	32	32	49	#8
#16	59	74	#16			2	#16	21	21	27	#16
#30	36	45	#30				#30	18	15	17	#30
#50	14	18	#50				#50	12	10	11	#50
#100	5	6	#100				#100	9	9	7	#100
#200	2	2	#200				#200	5	6	3	#200

Dry Rodded Wt (pcf)	102.4	105.2	101.6			114.0
Max Dry Unit W (Proctor) (pcf)						142.8
Optimum Moisture (%)						8.7
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
 Fax: (413) 736-1838

John Turner Consulting
 66 Southgate Street
 Worcester, MA 01603
 Phone: (774) 420.7227

Calendar Year 2023

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