

FILTRATION SAND & GRAVEL



Since 1917, Red Flint Sand and Gravel, LLC has produced the highest quality water filtration media and specialty aggregates available worldwide. Red Flint takes pride in our ability to manufacture products with precise effective size ranges and the lowest uniformity coefficients in the industry. Our sand and gravel meets or exceeds the AWWA B100 Standard and is NSF/ANSI Standard 61 & 372 certified for quality and purity.

Red Flint Silica Sand is graded specifically for use in water and waste water filtration processes. Our sand can be used in municipal, industrial, or residential applications. The low acid solubility and high silica content of our filter sand ensures durable and long lasting filter media performance.

Red Flint Gravel is manufactured to be uniform in size which promotes excellent flow and even distribution in support beds. Our gravel is low in soluble impurities and maintains its quality as a support bed for the filter media. We also supply filter pack for water wells, anthracite, garnet, Greensand Plus™, and other granular media.



FILTER SAND - ROCKINGHAM, NC	
Parameter	Description
Physical Form	White, sub-angular
Bulk Density	~ 90 lbs. per cubic foot
Hardness (Mohs Scale)	70
Effective Size Range	0.20 - 0.30 mm to 2.00 - 3.00 mm
Uniformity Coefficient	1.3 to less than 1.7
Acid Solubility	< 1.0%
Specific Gravity	> 2.6
Silicon Dioxide Content	> 97%
Loss on Ignition	< 1.0%

SUPPORT GRAVEL - ROCKINGHAM, NC	
Parameter	Description
Physical Form	Uncrushed, smooth surface
Bulk Density	~ 90 lbs. per cubic foot
Hardness (Mohs Scale)	70 - 8.0
Size Range	1/8" x 1/16" to 1/2" x 3/4"
Porosity	38% - 45%
Acid Solubility	< 1.0%
Specific Gravity	> 2.6
Silicon Dioxide Content	< 97%
Thin, Flat & Elongated	< 2.0%

TYPICAL SIEVE ANALYSIS



Filter Sand

Product Effective Size (mm)		2.00-3.00	1.65-2.00	1.20-1.60	0.80-1.20	0.65-0.75	0.60-0.65	0.45-0.55	0.35-0.45	0.20-0.30
US Mesh	mm	Percent Passing (%)								
4	4.75	99								
5	4.00	89	99							
6	3.35	57	94	99						
7	2.80	27	78	96						
8	2.36	10	57	90						
10	2.00	3	29	73	99					
12	1.70	1	6	50	98	99				
14	1.40		1	15	77	97				
16	1.18			3	51	87	99	99		
18	1.00			1	20	64	88	94		
20	0.850				5	41	65	82	98	
25	0.710				1	11	32	58	84	
30	0.600					3	7	33	59	98
35	0.500					1	2	10	28	93
40	0.425						1	2	8	72
45	0.355							1	2	42
50	0.300									24
60	0.250									10
70	0.212									5
80	0.180									2

Support Gravel

Product Size (inches)			1/4 x 1/8	3/16 x 3/32	1/8 x 1/16
US Mesh	Inches	mm			
2 1/2"	2.500	63.00			
2.0"	2.000	50.00			
1 1/2"	1.500	37.50			
1.0"	1.000	25.00			
7/8"	0.875	22.40			
3/4"	0.750	19.00			
5/8"	0.625	16.00			
1/2"	0.500	12.50			
3/8"	0.375	9.50			
1/4"	0.250	6.30	96		
4	0.187	4.75	66	98	
5	0.157	4.00	35	84	
6	0.132	3.35	11	45	97
1/8"	0.125	3.18	5	14	94
7	0.111	2.80	1	3	80
8	0.094	2.36		1	60
10	0.079	2.00			30
12	0.066	1.70			6
14	0.056	1.40			1

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