

FILTRATION MEDIA



FILTRATION SAND & GRAVEL

SWT sand and gravel are manufactured with precise effective size ranges and the lowest uniformity coefficients in the industry.

SWT 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.

SWT 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.

Meets or exceeds all ASI, AWWA, or ASME standards and protocols. UL Certified to NSF/ANSI Standards 61 & 372.

Filter Sand Properties

Color	Light brown
Form	Sub-angular/sub-round
Bulk Density	~100 lbs. per cubic foot
Hardness	6.0 to 7.0 (Mohs scale)
Effective Size Range	0.2-0.3mm to 2.0-3.0mm
Uniformity Coefficient	1.3 to 1.7 maximum
Acid Solubility	<1.0%
Specific Gravity	>2.6
Silicon Dioxide Content	>85%
Loss on Ignition	<2.0%
Source of Material	USA

Support Gravel Properties

Color	Assorted
Form	Uncrushed, smooth surface
Bulk Density	~100 lbs. per cubic foot
Hardness	7.0 to 8.0 (Mohs scale)
Effective Size Range	1/8" x 1/16" to 2 1/2" x 1 1/2"
Porosity	38% - 45%
Acid Solubility	<1.0%
Specific Gravity	>2.6
Deleterious Material	< 1.0%
Thin, Flat & Elongated	<2.0%
Source of Material	USA

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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)			2 1/2 x 1 1/2	1/2 x 3/4	3/4 x 1/2	5/8 x 3/8	1/2 x 1/4	3/8 x 3/16	1/4 x 1/8	3/16 x 3/32	1/8 x 1/16
US Mesh	inches	mm	Percent Passing (%)								
2 1/2"	2.500	63.00	98								
2.0"	2.000	50.00	35								
1 1/2"	1.500	37.50	5	98							
1.0"	1.000	25.00	1	40							
7/8"	0.875	22.40		18							
3/4"	0.750	19.00		4	97						
5/8"	0.625	16.00			48	99					
1/2"	0.500	12.50			3	77	98				
3/8"	0.375	9.50				3	41	98			
1/4"	0.250	6.30				1	4	30	96		
4	0.187	4.75						4	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