



PRODUCT INFORMATION

SILICA: WATER FILTRATION SAND
UNIFORMITY COEFFICIENT: ≤ 1.4
PLANT: THOMPSON, OH

R.W. Sidley’s operates a state of the art processing plant that produces the highest quality products virtually free of deleterious materials. Our processed silica sand is from our Thompson mine part of the Sharon conglomerate formation. All Silica Filter Sands are washed, dried and screened at the Thompson plant and meet AWWA B-100-16 standards for granular filter media and NSF-61 requirements for drinking water components.

Tighter U.C. size of 1.3 available upon request.

Available packaging: 50 lb. bags, 3,000 lb. super sacks, 4,000 lb. super sacks and bulk quantities.

TYPICAL LABORATORY SIEVE ANALYSIS							
AWWA Spec.	.35-.45mm	.40-.50mm	.45-.55mm	.50-.60mm	.55-.65mm	.65-.75mm	.80-1.2mm
Uniformity Coefficient Specification	≤1.4	≤1.4	≤1.4	≤1.4	≤1.4	≤1.4	≤1.4
Mesh Size	Cumulative % Passing						
1/4							
4							
6							
8							
10							
12							100
14						100	95
16					100	98	53
18		100	100	100	99	79	17
20		97	96	91	81	50	1
25		77	71	50	33	17	T
30	100	51	41	15	6	2	
35	75	18	9	3	T	T	
40	19	5	2	1			
50	T	T	T	T			
60							
70							
100							
140							
200							
270							
Pan	0	0	0	0	0	0	
Typical E.S.	0.366	0.456	0.502	0.560	0.618	0.659	1.102
Typical U.C.	1.311	1.399	1.334	1.330	1.278	1.369	1.318

CHEMICAL ANALYSIS	
Tests	Results/Units
SiO ₂	99.3%
Fe ₂ O ₃	0.38%
Al ₂ O ₃	0.21%
K ₂ O	0.054%
TiO ₂	0.025%
Na ₂ O	0.005%
Total Mg	0.004%
Total Ca	0.003%
Ni	<0.001%
Mn	0.001%
Cr ₂ O ₃	<0.001%

PHYSICAL ANALYSIS	
Silica	
Percent Loss, Acid Solubility (ASTM D3042)	0.4%
Moh's Hardness	7
Loss on Ignition	0.14%
pH	6.4
Specific Gravity	2.63-2.65
Absorption	0.31%

Testing: Results are typical for the product.
 Laboratory Sieve Analysis: Testing was conducted at R.W. Sidley, Inc., Thompson, OH
 Tests performed in accordance with ASTM D-75, ASTM C-136, and AASHTO T-176
 Chemical Analysis: Testing conducted by NSL Analytical, Cleveland, OH
 Physical Analysis: Testing conducted by NSL Analytical, Cleveland, OH



R.W. Sidley, Inc.
 Filtration Sands &
 Gravels are NSF
 Certified annually.

Revised: 03.29.22



PRODUCT INFORMATION

SILICA: WATER FILTRATION SAND
UNIFORMITY COEFFICIENT: ≤ 1.5*
PLANT: THOMPSON, OH

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Tighter U.C. sizes of 1.3-1.4 available upon request. *All sands are ≤1.5 except for 1.5-.25mm.

Available packaging: 50 lb. bags, 3,000 lb. super sacks, 4,000 lb. super sacks and bulk quantities.

TYPICAL LABORATORY SIEVE ANALYSIS											
AWWA Spec.	.15-.25mm	.25-.35mm	.30-.40mm	.35-.45mm	.40-.50mm	.45-.55mm	.50-.60mm	.50-.70mm	.55-.65mm	.65-.75mm	.80-1.2mm
Uniformity Coefficient Specification	≤1.8*	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
Mesh Size	Cumulative % Passing										
1/4											
4											
6											
8											100
10											95
12											74
14										100	47
16							100	100	100	99	29
18					100	98	98	92	81	82	12
20				100	87	72	74	53	33	35	2
25					87	72	74	53	33	35	T
30	100	100	100	69	41	41	20	6	6	3	
35	99	87	71	37	13	7	4	T	T	T	
40	82	38	24	12	3	1	1				
50	32	4	1	1	T	T					
60	14	1	1	T							
70	1	1	T								
100	2										
140	2										
200											
270											
Pan	0	0	0	0	0	0	0	0	0	0	0
Typical E.S.	0.227	0.323	0.347	0.403	0.455	0.510	0.539	0.617	0.614	0.642	1.102
Typical U.C.	1.628	1.418	1.392	1.418	1.450	1.448	1.362	1.280	1.406	1.430	1.494

CHEMICAL ANALYSIS	
Tests	Results/Units
SiO ₂	99.3%
Fe ₂ O ₃	0.38%
Al ₂ O ₃	0.21%
K ₂ O	0.054%
TiO ₂	0.025%
Na ₂ O	0.005%
Total Mg	0.004%
Total Ca	0.003%
Ni	<0.001%
Mn	0.001%
Cr ₂ O ₃	<0.001%

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Silica	
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