

## Wentworth Size Classification

Tyler sieve numbers	U.S. Standard sieve series						Wentworth size classification
	Sieve No.	Openings					
		inches	mm	mm-fraction	microns	$\phi^*$	
	Use wire squares in inches	10.079	256			-8	Boulder gravel
		2.520	64			-6	Cobble gravel
							Pebble gravel
5	5	0.157	4			-2	Granule gravel
6	6	0.132	3.36				
7	7	0.111	2.83				
8	8	0.0931	2.38				
9	10	0.0787	2.00			-1	Very coarse sand
10	12	0.0661	1.68				
12	14	0.0555	1.41				
14	16	0.0469	1.19				
16	18	0.0394	1.00		1000	0	Coarse sand
20	20	0.0331	0.840		840		
24	25	0.0280	0.710		710		
28	30	0.0232	0.590		590		
32	35	0.0197	0.500	1/2	500	1	Medium sand
35	40	0.0165	0.420		420		
42	45	0.0138	0.350		350		
48	50	0.0117	0.297		300		
60	60	0.0098	0.250	1/4	250	2	Fine sand
65	70	0.0083	0.210		210		
80	80	0.0070	0.177		177		
100	100	0.0059	0.149		149		
115	120	0.0049	0.125	1/8	125	3	Very fine sand
150	140	0.0041	0.105		105		
170	170	0.0035	0.088		88		
200	200	0.0029	0.074		74		
250	230	0.0024	0.0625	1/16	62.5	4	Silt
270	270	0.0021	0.053		53		
375	325	0.0017	0.044		44		
400	400	0.0015	0.037		37		
			0.0313	1/32	31.3	5	
			0.0156	1/64	15.6	6	
			0.0078	1/128	7.8	7	
			0.0039	1/256	3.9	8	
							Clay

$$*\phi = -\log_2\left(\frac{d}{1\text{mm}}\right)$$

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