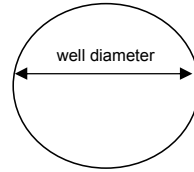


Well Plugging Materials List

Notes: All surface cement, etc. should be removed and brick or tile broken up down 4' before calling out the Sanitarian. If it can be made small enough to go down without bridging and causing dead air space it may be put down the well. Otherwise it should be removed. The routine method is fill sand/gravel to one foot below water level then a bentonite plug, then fill sand/gravel to the four foot level where the casing or brick stops and is removed then another bentonite plug, then up to one or two feet from the surface with sand/gravel. Finish with clean soil and mound it up so that water will run off.

First find your diameter of well below then get either pounds or tons per foot of material plus needed Bentonite. For cisterns use the formula $D \times D$ (in ft.) $\times .7854 \times H \times 111 =$ pounds of material.

Well diameters 3 to 18" use pea gravel for fill, 19" and larger use sand for fill material.



Well Diameter	Pounds Per Foot	Tons Per Foot	Bentonite	
3"	5.449	0.00272	One bag for every 50' of depth 	
4"	9.687	0.00484		
5"	15.136	0.00757		
6"	21.796	0.01090		
7"	29.666	0.01483		
8"	38.748	0.01937		
9"	49.040	0.02452		
10"	60.544	0.03027		
11"	73.258	0.03663		
12"	87.183	0.04359		
13"	102.319	0.05116		
14"	118.666	0.05933		
15"	136.223	0.06811		
16"	154.992	0.07750		
17"	174.971	0.08749		
18"	196.162	0.09808		
19"	218.563	0.10928		3 bags at water level, and 4 bags at 4' level 4 bags at water level, and 5 bags at 4' level 5 bags at water level, and 6 bags at 4' level 6 bags at water level, and 7 bags at 4' level 7 bags at water level, and 8 bags at 4' level 8 bags at water level, and 9 bags at 4' level
20"	242.175	0.12109		
21"	266.998	0.01335		
22"	293.032	0.14652		
23"	320.276	0.16014		
24"	348.732	0.17437		
25"	378.398	0.18920		
26"	409.276	0.20464		
27"	441.364	0.22068		
28"	474.663	0.23733		
29"	509.173	0.25459		
30"	544.894	0.27245		
31"	581.825	0.29091		
32"	619.968	0.30998		
33"	659.321	0.32966		
34"	699.886	0.34994		
35"	741.661	0.37083		
36"	784.647	0.39232		
37"	828.844	0.41442		
38"	874.252	0.43713		
39"	920.870	0.46044		
40"	968.700	0.48435		
41"	1017.740	0.50887		
42"	1067.992	0.53400		
43"	1119.454	0.55973		
44"	1172.127	0.58606		
45"	1226.011	0.61301		
46"	1281.105	0.64055		
47"	1337.411	0.66871		
48"	1394.928	0.69746		
49"	1453.655	0.72683		
50"	1499.891	0.74994		
60"	2159.822	1.07991		
72"	3110.174	1.55508		