

Recommended Procedure for Shock Chlorinating a Well

AMOUNT OF CHLORINE NECESSARY PER 10 FEET OF WATER IN WELL

Inside diameter of well casing	5.25% sodium hypochlorite (bleach)			65% calcium hypochlorite		
	100 ppm for 2 hrs	50 ppm for 8 hrs	25 ppm for 24 hrs	100 ppm for 2 hrs	50 ppm for 8 hrs	25 ppm for 24 hrs
1 1/4 inches	1/8 fl oz	--	--	--	--	--
2 inches	1/2 fl oz	1/4 fl oz	1/8 fl oz	--	--	--
3 inches	1 fl oz	1/2 fl oz	1/4 fl oz	--	--	--
4 inches	1 1/2 fl oz	3/4 fl oz	3/8 fl oz	--	--	--
6 inches	4 fl oz	2 fl oz	1 fl oz	1/4 oz	1/8 oz	1/16 oz
8 inches	7 fl oz	3 1/2 fl oz	1 3/4 fl oz	1/2 oz	1/4 oz	1/8 oz
10 inches	10 fl oz	5 fl oz	2 fl oz	3/4 oz	3/8 oz	3/16 oz
12 inches	2 cups	1 cup	1/2 cup	1 oz	1/2 oz	1/4 oz
18 inches	4 1/2 cups	2 1/4 cups	1 1/8 cups	2 1/2 oz	1 1/4 oz	5/7 oz
24 inches	7 1/2 cups	3 3/4 cups	1 7/8 cups	4 1/2 oz	2 1/4 oz	1 1/8 oz
36 inches	17 1/2 cups	8 3/4 cups	4 3/8 cups	10 oz	5 oz	2 1/2 oz

* ppm = parts per million

1 heaping tablespoon of 65% chlorine powder = 1/2 oz.

8 fluid ounces = 1 cup

1. Determine chlorine dosage for the desired contact time from the table above.
2. Prepare a chlorine solution, lift well pump, and pour the chlorine solution into the well.
3. Lower the pump and operate until a chlorine odor is noticed at all discharge points.
4. Leave the chlorine solution in the well for the recommended contact time. Do not use the water.
5. At the end of the contact time, pump the well to waste until the chlorine odor cannot be detected. **DO NOT ALLOW THE WATER TO ENTER A RIVER, LAKE OR STREAM.**
6. Pump the well for a considerable period of time until the chlorine is all gone before collecting bacteriological water samples.
7. Do not use scented bleach or chlorine tablets that contain a chlorinated isocyanurate a.k.a. "stabilized chlorine" (check the label).

Recommended Procedure for Shock Chlorinating a Reservoir or Cistern

AMOUNT OF CHLORINE NECESSARY FOR DOSAGE AND TIME COMBINATIONS

Volume of Box, Basin, Reservoir or cistern	5.25% sodium hypochlorite (bleach)			65% calcium hypochlorite		
	100 ppm for 2 hrs	50 ppm for 8 hrs	25 ppm for 24 hrs	100 ppm for 2 hrs	50 ppm for 8 hrs	25 ppm for 24 hrs
50 gal	1 1/2 cups	3/4 cup	3/8 cup	--	--	--
100 gal	3 cups	1 1/2 cups	3/4 cup	--	--	--
200 gal	6 cups	3 cups	1 1/2 cups	--	--	--
500 gal	1 gal	7 1/2 cups	3 3/4 cups	9 1/2 oz	--	--
1,000 gal	2 gal	1 gal	7 1/2 cups	1 lb 3 oz	9 1/2 oz	--
2,000 gal	4 gal	2 gal	1 gal	2 lb 6 oz	1 lb 3 oz	9 1/2 oz
5,000 gal	--	5 gal	2 1/2 gal	6 lb	3 lb	1 lb 8 oz
10,000 gal	--	--	5 gal	12 lb	6 lb	3 lb
20,000 gal	--	--	--	24 lb	12 lb	6 lb
50,000 gal	--	--	--	60 lb	30 lb	15 lb
100,000 gal	--	--	--	120 lb	60 lb	30 lb

*ppm = parts per million

1. The unit to be disinfected should be full of water.
2. Determine recommended chlorine disinfection dosage for the desired contact time from the table above.
3. Completely mix the chlorine dosage throughout the unit to be disinfected.
4. Leave the chlorine solution in the unit for the recommended contact time.
5. Do not use the heavily chlorinated water.
6. At the end of the contact time, remove the water from the unit and discharge to waste. **DO NOT ALLOW THE WATER TO ENTER A RIVER, LAKE OR STREAM.**
7. Fill the unit with clean water and collect a water sample for bacteriological testing after all the chlorine is gone.
8. Do not use scented bleach or chlorine tablets that contain a chlorinated isocyanurate a.k.a. "stabilized chlorine" (check the label).