Johnson Screens

Chlor-Safe
Nu-Well 420 Chlorine Alternative

Description

Chlor-Safe is an alternative to traditional chlorine disinfection and is effective without pH control. It is a chlorinated isocyanurate compound for use in the disinfection of wells, storage tanks, and distribution pipelines.

- Safer than liquid chlorine, with no splashing, spills or corrosive fumes
- Removes the need for pH control
- Dissolves quickly, even in cold water
- 55% available chlorine
- Easy to use
- Long shelf life
- NSF certified for potable water well use

Application

Chlor-Safe is mixed with potable water in a tank at the surface and the solution is placed in the well and agitated to disinfect the well casing, screen and filter pack.

1. Determine the static volume and the amount of **Chlor-Safe**. (Consideration should be given to increasing this volume by two to four times to allow sufficient disinfectant solution to reach all areas of the well and borehole that can harbor coliform bacteria or other contaminating organisms.)
2. In a tank on the surface, add the amount of **Chlor-Safe** to water as estimated from dosage guide.
3. Place the chlorine solution in the well, evenly washing down the upper levels of the well before you place the solution throughout the water column
4. Agitate or surge the mixture to ensure good coverage. Let the solution stand in the well for contact time required per local regulations. Additional agitation before removal is beneficial.
5. Pump the solution to the surface, neutralize, and discharge in accordance with local rules and regulations.

Physical properties, shipping and handling

Appearance: White to opaque coarse crystal
Density: 10.0 lbs./gal.
pH (as shipped): 6.5 in a 55% solution
Specific Gravity: 1.67
Freeze point: Not Applicable - solid
Solubility (in water): 28% at 25 C
Use range: 0.01 to 1% by volume

- Not regulated as a hazardous material under 49CFR 172.101
- Additional physical and handling data are available on the product SDS
- 20 oz. and 9 lbs. containers can be shipped by UPS ground delivery
- Available in 20 oz., 9 lbs. containers and 45 lbs. pails

Dosage Guide Chlor-Safe

Nominal Well Size (in.)		50 ppm Solution		**100 ppm Solution**		200 ppm Solution		1000 ppm Solution	
in.	mm	lbs/ft	kg/m	lbs/ft	kg/m	lbs/ft	kg/m	lbs/ft	kg/m
2	51	0.0001	0.001	0.0002	0.002	0.0005	0.003	0.002	0.02
3	76	0.0003	0.002	0.0006	0.004	0.001	0.008	0.006	0.04
4	102	0.0005	0.004	0.001	0.007	0.002	0.01	0.01	0.07
5	127	0.0008	0.006	0.002	0.01	0.003	0.02	0.02	0.1
6	152	0.001	0.008	0.002	0.02	0.004	0.03	0.02	0.2
8	203	0.002	0.01	0.004	0.03	0.008	0.06	0.04	0.3
10	254	0.003	0.02	0.006	0.04	0.01	0.1	0.06	0.4
12	305	0.004	0.03	0.009	0.1	0.02	0.1	0.09	0.6
14	356	0.006	0.04	0.01	0.1	0.02	0.2	0.1	0.9
16	406	0.008	0.06	0.02	0.1	0.03	0.2	0.2	1.1
18	457	0.01	0.07	0.02	0.1	0.04	0.3	0.2	1.4
20	508	0.01	0.09	0.02	0.2	0.05	0.4	0.2	1.8
22	559	0.01	0.1	0.03	0.2	0.06	0.4	0.3	2.1
24	610	0.02	0.1	0.04	0.3	0.07	0.5	0.4	2.6
26	660	0.02	0.1	0.04	0.3	0.08	0.6	0.4	3.0
30	762	0.03	0.2	0.06	0.4	0.1	0.8	0.6	4.0
34	864	0.04	0.3	0.07	0.5	0.1	1.0	0.7	5.1
36	914	0.04	0.3	0.08	0.6	0.2	1.2	0.8	5.8

Treatment Example

Treat 5 in. well, 180 ft. total depth, static water level = 40 ft.

Step 1
Static Height = (180 ft. - 40ft.) = 140 ft.
Step 2
Dosage Value from chart =
0.002 lbs/ft. (5 in. well)
Step 3
Volume of **Chlor-Safe** =
140 ft. x 0.002 lbs./ft. =
0.28 lbs. (approx 0.45 cups)

Convert: 1 lb. = 1.6 cups
1 kg. = 1200 ml

Standard dosage for 100 ppm chlorination is 0.0015 lb/gal, based on 1 times well volume.
For best results when disinfecting, or for persistent coliform issues, we recommend using 2-4 times total well volume.

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