



DIRECTIONS FOR MIXING AND USE

Fill container with half of the total desired amount of 90°F - 105°F water. Slowly add half of the pH7X® powder, stirring continuously until fully dissolved. Top off the container with the second half of the 90°F - 105°F water. Stir in the rest of the pH7X® powder until fully dissolved.

A 2% overnight soak for the first cleaning is **HIGHLY** recommended for problematic and neglected beer lines.

For routine static cleaning, allow the solution to soak for at least 20 minutes. For pump recirculation cleanings, 15 minutes. For stubborn or caked on biofilm, pH7X® can safely be used in extended soaks up to 24 hours. After cleaning, rinse the system with clean water to remove any remaining solution.

MIXING RATIOS - 1% solution*

pH7X®	Water
2 Tbsp + 1¼ tsp (38g)	1 Gallon (3.79l)
¾ Cup (189g)	5 Gallons (18.93l)
1½ Cups (379g)	10 Gallons (37.85l)
3 Cups (758g)	20 Gallons (75.71l)

Dry volumes are approximate; based on 189g = ¾ cup.

*Double the amount of pH7X® if needing a 2% solution. Triple the amount if needing a 3% solution.

WARNING: Injurious to eyes. Harmful if swallowed. Contains sodium percarbonate and sodium carbonate. Avoid powder or solution contact with eyes and prolong skin contact. (Wear gloves) **EYE CONTACT:** Flush with water for 15 minutes; seek medical attention immediately. **IF SWALLOWED:** drink a glass of water; do not induce vomiting; seek medical attention immediately. **SKIN CONTACT:** flush with water. Do not mix with products containing ammonia, chlorine, bleach, or with other household chemicals. Do not mix or store solution in a sealed container, as pressure can build up and the container may rupture causing injury. Do not boil water for use with pH7X®.

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MADE IN THE USA**

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Solution % Chart

1 - 50 Gallons

Gallons	Liters	1%	2%	3%	4%
1	3.79	1.34 oz / 38 g	2.67 oz / 76 g	4.01 oz / 114 g	5.34 oz / 151 g
2	7.57	2.67 oz / 76 g	5.34 oz / 151 g	8.01 oz / 227 g	10.68 oz / 303 g
3	11.36	4.01 oz / 114 g	8.01 oz / 227 g	12.02 oz / 341 g	1 lb 0.0 oz / 454 g
4	15.14	5.34 oz / 151 g	10.68 oz / 303 g	1 lb 0.0 oz / 454 g	1 lb 5.4 oz / 606 g
5	18.93	6.68 oz / 189 g	13.35 oz / 378 g	1 lb 4.0 oz / 568 g	1 lb 10.7 oz / 757 g
6	22.71	8.01 oz / 227 g	1 lb 0.0 oz / 454 g	1 lb 8.0 oz / 681 g	2 lb 0.0 oz / 908 g
7	26.5	9.35 oz / 265 g	1 lb 2.7 oz / 530 g	1 lb 12.0 oz / 795 g	2 lb 5.4 oz / 1.06 kg
8	30.28	10.68 oz / 303 g	1 lb 5.4 oz / 606 g	2 lb 0.0 oz / 908 g	2 lb 10.7 oz / 1.21 kg
9	34.06	12.02 oz / 341 g	1 lb 8.0 oz / 681 g	2 lb 4.0 oz / 1.02 kg	3 lb 0.1 oz / 1.36 kg
10	37.85	13.35 oz / 378 g	1 lb 10.7 oz / 757 g	2 lb 8.1 oz / 1.14 kg	3 lb 5.4 oz / 1.51 kg
11	41.64	14.69 oz / 416 g	1 lb 13.4 oz / 833 g	2 lb 12.1 oz / 1.25 kg	3 lb 10.7 oz / 1.67 kg
12	45.42	1 lb 0.0 oz / 454 g	2 lb 0.0 oz / 908 g	3 lb 0.1 oz / 1.36 kg	4 lb 0.1 oz / 1.82 kg
13	49.2	1 lb 1.4 oz / 492 g	2 lb 2.7 oz / 984 g	3 lb 4.1 oz / 1.48 kg	4 lb 5.4 oz / 1.97 kg
14	52.99	1 lb 2.7 oz / 530 g	2 lb 5.4 oz / 1.06 kg	3 lb 8.1 oz / 1.59 kg	4 lb 10.8 oz / 2.12 kg
15	56.78	1 lb 4.0 oz / 568 g	2 lb 8.1 oz / 1.14 kg	3 lb 12.1 oz / 1.7 kg	5 lb 0.1 oz / 2.27 kg
16	60.56	1 lb 5.4 oz / 606 g	2 lb 10.7 oz / 1.21 kg	4 lb 0.1 oz / 1.82 kg	5 lb 5.4 oz / 2.42 kg
17	64.34	1 lb 6.7 oz / 643 g	2 lb 13.4 oz / 1.29 kg	4 lb 4.1 oz / 1.93 kg	5 lb 10.8 oz / 2.57 kg
18	68.13	1 lb 8.0 oz / 681 g	3 lb 0.1 oz / 1.36 kg	4 lb 8.1 oz / 2.04 kg	6 lb 0.1 oz / 2.73 kg
19	71.92	1 lb 9.4 oz / 719 g	3 lb 2.7 oz / 1.44 kg	4 lb 12.1 oz / 2.16 kg	6 lb 5.5 oz / 2.88 kg
20	75.7	1 lb 10.7 oz / 757 g	3 lb 5.4 oz / 1.51 kg	5 lb 0.1 oz / 2.27 kg	6 lb 10.8 oz / 3.03 kg
21	79.48	1 lb 12.0 oz / 795 g	3 lb 8.1 oz / 1.59 kg	5 lb 4.1 oz / 2.38 kg	7 lb 0.2 oz / 3.18 kg
22	83.27	1 lb 13.4 oz / 833 g	3 lb 10.7 oz / 1.67 kg	5 lb 8.1 oz / 2.5 kg	7 lb 5.5 oz / 3.33 kg
23	87.06	1 lb 14.7 oz / 871 g	3 lb 13.4 oz / 1.74 kg	5 lb 12.1 oz / 2.61 kg	7 lb 10.8 oz / 3.48 kg
24	90.84	2 lb 0.0 oz / 908 g	4 lb 0.1 oz / 1.82 kg	6 lb 0.1 oz / 2.73 kg	8 lb 0.2 oz / 3.63 kg
25	94.62	2 lb 1.4 oz / 946 g	4 lb 2.8 oz / 1.89 kg	6 lb 4.1 oz / 2.84 kg	8 lb 5.5 oz / 3.79 kg
26	98.41	2 lb 2.7 oz / 984 g	4 lb 5.4 oz / 1.97 kg	6 lb 8.1 oz / 2.95 kg	8 lb 10.9 oz / 3.94 kg
27	102.2	2 lb 4.0 oz / 1.02 kg	4 lb 8.1 oz / 2.04 kg	6 lb 12.1 oz / 3.07 kg	9 lb 0.2 oz / 4.09 kg
28	105.98	2 lb 5.4 oz / 1.06 kg	4 lb 10.8 oz / 2.12 kg	7 lb 0.2 oz / 3.18 kg	9 lb 5.5 oz / 4.24 kg
29	109.77	2 lb 6.7 oz / 1.1 kg	4 lb 13.4 oz / 2.2 kg	7 lb 4.2 oz / 3.29 kg	9 lb 10.9 oz / 4.39 kg
30	113.55	2 lb 8.1 oz / 1.14 kg	5 lb 0.1 oz / 2.27 kg	7 lb 8.2 oz / 3.41 kg	10 lb 0.2 oz / 4.54 kg
31	117.34	2 lb 9.4 oz / 1.17 kg	5 lb 2.8 oz / 2.35 kg	7 lb 12.2 oz / 3.52 kg	10 lb 5.6 oz / 4.69 kg
32	121.12	2 lb 10.7 oz / 1.21 kg	5 lb 5.4 oz / 2.42 kg	8 lb 0.2 oz / 3.63 kg	10 lb 10.9 oz / 4.84 kg
33	124.91	2 lb 12.1 oz / 1.25 kg	5 lb 8.1 oz / 2.5 kg	8 lb 4.2 oz / 3.75 kg	11 lb 0.2 oz / 5.0 kg
34	128.69	2 lb 13.4 oz / 1.29 kg	5 lb 10.8 oz / 2.57 kg	8 lb 8.2 oz / 3.86 kg	11 lb 5.6 oz / 5.15 kg
35	132.47	2 lb 14.7 oz / 1.32 kg	5 lb 13.5 oz / 2.65 kg	8 lb 12.2 oz / 3.97 kg	11 lb 10.9 oz / 5.3 kg
36	136.26	3 lb 0.1 oz / 1.36 kg	6 lb 0.1 oz / 2.73 kg	9 lb 0.2 oz / 4.09 kg	12 lb 0.3 oz / 5.45 kg
37	140.05	3 lb 1.4 oz / 1.4 kg	6 lb 2.8 oz / 2.8 kg	9 lb 4.2 oz / 4.2 kg	12 lb 5.6 oz / 5.6 kg
38	143.83	3 lb 2.7 oz / 1.44 kg	6 lb 5.5 oz / 2.88 kg	9 lb 8.2 oz / 4.31 kg	12 lb 10.9 oz / 5.75 kg
39	147.62	3 lb 4.1 oz / 1.48 kg	6 lb 8.1 oz / 2.95 kg	9 lb 12.2 oz / 4.43 kg	13 lb 0.3 oz / 5.9 kg
40	151.4	3 lb 5.4 oz / 1.51 kg	6 lb 10.8 oz / 3.03 kg	10 lb 0.2 oz / 4.54 kg	13 lb 5.6 oz / 6.06 kg
41	155.19	3 lb 6.7 oz / 1.55 kg	6 lb 13.5 oz / 3.1 kg	10 lb 4.2 oz / 4.66 kg	13 lb 11.0 oz / 6.21 kg
42	158.97	3 lb 8.1 oz / 1.59 kg	7 lb 0.2 oz / 3.18 kg	10 lb 8.2 oz / 4.77 kg	14 lb 0.3 oz / 6.36 kg
43	162.75	3 lb 9.4 oz / 1.63 kg	7 lb 2.8 oz / 3.26 kg	10 lb 12.2 oz / 4.88 kg	14 lb 5.6 oz / 6.51 kg
44	166.54	3 lb 10.7 oz / 1.67 kg	7 lb 5.5 oz / 3.33 kg	11 lb 0.2 oz / 5.0 kg	14 lb 11.0 oz / 6.66 kg
45	170.33	3 lb 12.1 oz / 1.7 kg	7 lb 8.2 oz / 3.41 kg	11 lb 4.2 oz / 5.11 kg	15 lb 0.3 oz / 6.81 kg
46	174.11	3 lb 13.4 oz / 1.74 kg	7 lb 10.8 oz / 3.48 kg	11 lb 8.2 oz / 5.22 kg	15 lb 5.7 oz / 6.96 kg
47	177.9	3 lb 14.8 oz / 1.78 kg	7 lb 13.5 oz / 3.56 kg	11 lb 12.3 oz / 5.34 kg	15 lb 11.0 oz / 7.12 kg
48	181.68	4 lb 0.1 oz / 1.82 kg	8 lb 0.2 oz / 3.63 kg	12 lb 0.3 oz / 5.45 kg	16 lb 0.3 oz / 7.27 kg
49	185.47	4 lb 1.4 oz / 1.85 kg	8 lb 2.8 oz / 3.71 kg	12 lb 4.3 oz / 5.56 kg	16 lb 5.7 oz / 7.42 kg
50	189.25	4 lb 2.8 oz / 1.89 kg	8 lb 5.5 oz / 3.79 kg	12 lb 8.3 oz / 5.68 kg	16 lb 11.0 oz / 7.57 kg

Fill container with half of the total desired amount of 90°F - 105°F water. Slowly add half of the pH7X® powder, stirring continuously until fully dissolved. Top off the container with the second half of the 90°F - 105°F water. Stir in the rest of the pH7X® powder until fully dissolved.

A 2% overnight soak for the first cleaning is HIGHLY recommended for problematic and neglected beer lines.

For routine static cleaning, allow the solution to soak for at least 20 minutes. For pump recirculation cleanings, 15 minutes. For stubborn or caked on biofilm, pH7X® can safely be used in extended soaks up to 24 hours. After cleaning, rinse the system with clean water to remove any remaining solution.

For CIP cleaning: Start filling the FV, kettle, filter, mash ton, etc. and add powder. The pump or spray ball will do the mixing.