

CRYSTAL CLEAR POOLS

Pools, Spas, and Accessories!

911 E. MacArthur Street . Suite 100 . Shawnee, OK 74804 Phone 405.214.7665
Email: Support@crystalclearpoolsok.com Website www.crystalclearpoolsok.com

Adjusting Your Swimming Pools pH Level

Adjusting your swimming pool pH level is easy once you understand proper pool water chemistry and maintenance. Raising and lowering your pH level takes only Muriatic Acid and pH Increaser/pH Plus/pH Up. Keep an eye on your pool's total alkalinity. This means when you add Alkalinity Increaser or Muriatic Acid, you're actually affecting both sides. Why? Because pH and Alkalinity are closely related even though the two are still separate aspects of chemistry. pH as a rule of thumb follows the alkalinity. This means when you raise your alkalinity, pH will rise. When you lower your alkalinity, pH will fall. In the event you lower your pH too low while lowering your alkalinity, not to worry. You will simply add pH Increaser to correct.

Lowering Your pH Level

Care must be taken when you lower the swimming pool pH by adding muriatic acid as it can cause severe skin burns, etch concrete, and dissolve metal if left in contact for too long. ***You must wear proper eye protection and skin coverage - In the event of "splash" or contact with Muriatic Acid Rinse with water immediately and thoroughly!***

Prior to adding pool acid as a pH minus, *be sure the pump is running and there are no swimmers in the pool.* Your chlorine tablets will keep your cyanuric acid in check but it may also lower your pH level so keep an eye out for that.

Add muriatic acid to the deepest part of your pool by slowly pouring it from the container in a manner to avoid splashes. *Never pour muriatic acid directly into your pool skimmer or main drain!* Add the recommended amount, based on gallons of water in your pool and its current pH level, to lower the pH to the desired range. If you lower the water too much, you can add pH Increaser.

Raising Your pH Level

To raise the pH in your swimming pool, you will be using a product called pH Increaser, pH Plus or pH Up. If you have a pool fountain or waterfall, be sure to turn it on as it will help increase the pH level by accelerating the distribution and circulation of the chemical.

Try to not add more than 2lbs. of pH Increaser/pH Plus/pH Up, for every 10,000 gallons of water in a single application to prevent over-dosing.

While pump is running, broadcast, (don't dump the product or go too fast or in one spot to prevent damage to liner, plaster or fiberglass finish), pH Increaser/pH Plus/pH Up into the pool around the perimeter. ***NOTE: Using the proper swimming pool chemicals with a higher concentration and techniques will allow for attaining the desired results more quickly.*** Allow the water to fully circulate, usually 4-6 hours, then re-test your pool's pH.

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Please refer to the DOSAGE CHART below to see the amount your pool needs to raise or lower your swimming pools' pH level.

A Normal 20,000 Gallon Pool

Raise pH .1ppm	40oz. (2 ½ pounds) of pH Increaser/ ph Plus/pH Up (pump motor on and water circulating)
Lower pH .1ppm	¼-½ gallon of Muriatic Acid or 8oz. of pH Decreaser/pH Minus/pH Down along the perimeter of the deep end with the pump on (pump motor on and water circulating)

Chart- Lowering pH with Muriatic Acid

GALLONS IN POOL		1,000	5,000	10,000	15,000	20,000	25,000	50,000
7.6-7.8		1 ½ oz.	6 oz.	12 oz.	18 oz.	24 oz.	1 qt.	2 qts.
7.8-8.0		1 ½ oz.	8 oz.	16 oz.	24 oz.	1 qt.	1 ¼ qts.	2 ½ qts.
8.0-8.4		2 ½ oz.	12 oz.	24 oz.	1 ¼ qts.	1 ½ qts.	2 qts.	1 gal.
Over 8.4		3 oz.	16 oz.	1 qt.	1 ¼ qts.	2 qts.	2 ½ qts.	1 ¼ gal.
pH level								

If you use too much Muriatic Acid or pH Decreaser/pH Minus/pH Down and the pH drops to 7.0 or 7.2, don't worry. Just simply add pH Increaser/ph Plus/pH Up to bring it back up to the correct range.

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When Filling With Well Water

When filling a pool, first test the pH of the fill water so you may have a good starting point. Most well water is very high in alkaline and therefore must be adjusted to prevent cloudy and green water as a result of. This is because almost all sanitizers on the market are only 10% effective in high Alkalinity & pH allowing bacteria and algae to grow.

When Filling With City Water

City water typically is balanced before it ever reaches your home. Why? Because your municipal water treatment plant has already tested and made the necessary adjustments in an effort to prevent damage to not only the treatment facility but in protect the city's plumbing lines and yours as well.

Let's Recap:

1. *What is swimming pool pH?*

pH is the comfort level of the water. It has a range from 0-14, 7.0 being neutral. You'll want to keep your pH at 7.2-7.6.

2. *When do I test my pool pH balance?*

Typically twice a week or when attempting to correct pH every 4 to 6 hours after each addition of pH increaser or decreaser to determine when you have accomplished the desired range.

3. *Where do I test pH in my pool?*

The most accurate place in the pool would be either the deep end or the point furthest away from the filter.

4. *Why should the pool pH be tested?*

pH, like chlorine, alkalinity, and hardness is an integral part of your pool's water balance. At a correct pH level, 7.2-7.6, the chlorine is most effective and bathers won't get that itchy feeling to their skin, burning or irritated eyes and split ends and dry fly away hair from an unbalanced pool. Also, too high or too low pH is not good for your pools finish, metal fixtures (ladders, handrails, light, faceplate screws, pump seals, multiport valve internal parts and filter media (sand, cartridges, DE Grids).

How do I test my swimming pool pH level?

OPTION 1: Reagent/Liquid Test Kits

When using a reagent/liquid test kit, you'll want to follow the step by step instructions per your kit. However, when using this type of kit, be sure when taking your sample, simply invert the vial upside down to collect the sample about 1 foot deep. Then compare your colors to the colors on

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the vial. In a perfect world, never place your hand over the vial when mixing the sample water, always use the cap to prevent contamination from your fingers/hand.

OPTION 2: Test Strips

When using test strips, simply remove 1 strip from the bottle, dip below the surface about a foot and remove immediately (**DO NOT SWISH OR MOVE STRIP BACK AND FORTH OR TAKE SAMPLE NEAR WATER HOSE WHILE FILLING AS THIS WILL GREATLY EFFECT YOUR RESULTS**). Hold strip level for 15 seconds. Then compare each pad to the color chart on your strip bottle.

IMPORTANT: ALL POOL CHEMICALS ARE NOT THE SAME! CHEMICALS SOLD BY WAL-MART, AMAZON, LOWES, ACE, IN THE SWIM, JUST TO NAME A FEW, ARE NOT 100% CONCENTRATED PRODUCT. THEREFORE YOU MUST INCREASE YOUR DOSAGE AND THE PRODUCTS CLOUD YOUR WATER DUE TO THE BI-PRODUCTS AND FILLERS USED TO DILUTE THE CHEMICAL YOU NEED AND MAKE IT LOOK THE SAME AS QUALITY POOL CHEMICALS...TO MAKE IT CHEAPER AND ATTRACTIVE TO CONSUMERS! IN A NUTSHELL, THEY ARE WATERED DOWN AND YOU WILL SPEND MORE MONEY USING THE CHEAP STUFF AND CREATE ADDITIONAL PROBLEMS.

If you have questions you can call us during normal business hours.
405-214-7665

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Don't forget to spread the word, WE PRICE MATCH WalMart and Amazon prices and have an equal or better product!

We thank you for your support of your local store !!!!