



FACTS about FAC

FAC - Free Available Chlorine forms when chlorine combines with water. The ideal amount of FAC in a swimming pool should be maintained at 1 to 3 parts per million. Free available chlorine will kill bacteria and algae in pool water. It will also combine with other compounds in the water such as ammonia. Eventually, FAC will combine with enough matter and become spent or tired and become combined chlorine - also referred to as chloramine.

Chloramine is undesirable in pools as it generates a foul odor, can cause skin and eye irritation and contributes to cloudy water. The worst issue of combined chlorine is that it is a very poor sanitizer of water.



What's that smell?

Preventing a smelly pool can be as simple as routine oxidizing.



Choosing the right oxidizing shock helps.

To see if combined chlorine is present in water, test for free available chlorine and total chlorine. Total Chlorine indicates how much good and bad chlorine is present in water. Subtract Free Available Chlorine (good) from Total Chlorine to calculate the amount of combined chlorine (bad) present in the water. Ideally, combined chlorine in pool water should be 0.

Total Chlorine
<u>-Free Chlorine</u>
= Combined Chlorine

Oxidizers- commonly referred to as “shocks” are often used to remove combined chlorine from pool water. Shocks fall into two categories: chlorinating shock and non-chlorine shock oxidizers. Regardless of which product you choose, it is important to remember that it is easier to prevent chloramine than it is to remove existing chloramine. Prevention is as simple as adding shock oxidizer to the pool routinely, regardless of how the water looks.

Chlorine shock is often recommended to prevent or reduce combined chlorine. While chlorine is an excellent sanitizer (kills bacteria and germs), it is not as effective in reducing combined chlorine. It may reduce some, but it can actually produce additional combined chlorine if used, chlorine products are best added at night when the pool is not in use to ensure chlorine levels are below 3ppm before re-entry.

ProTeam Power Magic AC blends un-stabilized calcium hypochlorite (cal hypo) with additional components to improve water clarity, prevent scale formation, create a more stable pH environment and soften water. ProTeam Power Magic AC solubility is very low. Undissolved particles will need to be brushed or vacuumed off of bleachable surfaces.

ProTeam Power 73 is a powerful cal hypo product uniquely formulated to be applied directly to the pool. Like Power Magic AC, undissolved particles will need to be brushed or vacuumed off of bleachable surfaces.

ProTeam Quick Shock is a near pH neutral stabilized dichlor blend, ideal for pool openings and readily combats common pool issues such as algae.

ProTeam Multi Magic Shock Extra is a shock, algaecide and stabilizer in one.

ProTeam Non-Chlorine Oxidizer

Non-chlorine shock oxidizers eliminate organic and in-organic precursors that lead to combined chlorine using oxygen instead of chlorine or bromine. Non-chlorine oxidizers will not fade liners or bathing suits and pool use may resume 15 minutes after application. Non-chlorine shock oxidizers do not sanitize the water, but their ability to destroy combined chlorine makes them the ideal solution for routine oxidizing of pool water. Non-chlorine shock oxidizers reduce the amount of chlorine used to treat pool water and can limit the formation of chlorine by-products like chloramines, nitrosamines and cyanogen chloride created when sweat, urine or other common contaminants mix with chlorine.

ProTeam Shock & Swim is powered by OXONE, and blended to give superior water clarity, prevent scale formation, soften pool water, and prevent the pH dip typically associated with a non-chlorine shock.

In summary:

- Chlorine reacts with water to form Free Available Chlorine (FAC)
 - Free Available Chlorine reacts with contaminants in water and can form combined chlorine
 - Combined chlorine is a poor sanitizer
 - Oxidizing (Shocking) minimizes combined chlorine (CC) and precursors that lead to CC
 - It is easier to prevent combined chlorine formation than eliminate it
 - Visit www.proteampoolcare.com for more info
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- Chlorine Shocks
 - Oxidize contaminants and kill algae
 - Can bleach liners and clothing
 - Require time for chlorine levels to dissipate after use
 - ProTeam Shock & Swim
 - Oxidize contaminants
 - Prevent combined chlorine and other pool issues
 - Allow re-entry into pool in just 15 minutes
 - Reduces formation of chlorine by-products