

CTX[®]

Professional



Pool Maintenance Manual

+30 Years
WITH YOU



www.ctxprofessional.com



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Balance

pH correctors and water balance

Water balance is essential for achieving perfect transparency and disinfection, as well as for preserving our health.



Cristal Water

Flocculants, clarifiers and brighteners

It is quick and easy to have transparent and crystalline water at all times using clarifiers, which remove all particles in suspension that the filter is unable to retain.



Disinfection

Chlorinated and non-chlorinated disinfectants

Although water may look clean, it contains micro-organisms and pathogens that must be removed through proper disinfection



Multieffect

Multi-action treatments: disinfectant, flocculant and algicide all in one!

Multi-action products are effective disinfectants and clarifiers, whilst preventing the formation of algae. What's more, they reduce the rapid evaporation of the disinfectant due to UV radiation.



AlgiControl

Algaecides

Algaecides prevent the appearance of green stains and slippery deposits on the walls, steps and bottoms of pools.



PoolCare

Cleaning and other essential products for a perfect pool

CTX has a wide range of products designed to solve any problems that may arise in a pool so that it is always in perfect condition.



Winter Care

Winterisers, essential for keeping water from one season to the next

As water is an increasingly scarce and valued asset, the time has come to think about using products that make it possible to keep it until the start of the next season. It's cheap and easy.

The chemical water treatment is to apply specific products that ensure hygiene, preservation and perfect water clarity. There are three steps that must be followed for the correct treatment of the water in our pool:

pH is an indicator of the H⁺ ions in water that determine acidity or alkalinity. pH is expressed on a numeric scale ranging from 0 (high acidity) to 14 (high alkalinity or low acidity). The ideal pH value is always between 7.2 and 7.6

Apart from keeping a pool in optimum working condition, this range is ideal for bath-

ers' skin and eyes. If the pH level is too high or too low, disinfectants are less effective and consumers end up using more chemicals, which means spending more money as well as posing a risk to health.

We have some different method to check the pH level:

Test Strips

It is the easiest method as it consists of strips of indicator paper to change color depending on the pH of the water in which they are immersed.

Chlorine-pH test kit.

This is a much more

accurate method that consists in filling the compartments of the kit with pool water. Add a Phenol Red tablet to the water, close the lid tightly and shake until the tablet has dissolved. When the water changes colour, match the colour of the water with the colour chart on the kit to determine the pH value.

To keep water in this range, it must be tested daily using a chlorine and pH test kit, and then adding a pH reducer or enhancer depending on the results.



CTX-20 y CTX-25
Ph+ Enhancer

CTX-10 y CTX-15
pH - Reducer

2. Water disinfection



Having clean pool water is essential to avoiding health problems. Even if the water is clear and transparent, there will be micro-organisms in it that must be removed through proper disinfection.

Chlorine:

Chlorine is highly effective in killing a wide range of pathogens that are usually found in pool water and it leaves a residue behind that is easy to measure and control. It is cheap and is a disinfectant that has been successfully used in water treatment for many years.

CTX-300/GR ClorLent **CTX-370 ClorLent 250 gr.**

Trichlorine, slow-acting or maintenance chlorine. This is essential for the continued treatment of a pool. All formats work, although tablets are the easiest way to dose it. A tablet is placed in the skimmer and it will gradually dissolve to disinfect

your pool little by little.

CTX-200/GR ClorShock

Dichlorine, fast-acting or shock chlorine. It is used to recover the state of water if you have neglected to treat it, or after a large number of swimmers have been in it or after a storm.

It's a good idea to always

have some close at hand to deal with any emergency that may arise.

CTX-392 MultiAction tablets

An all-in-one disinfectant, clarifier and algicide. It is perfect for when you don't have very much time to take care of your pool's main-

tenance. It is best used in combination with your chlorine maintenance product.



ClorLent

ClorShock

MultiAction



2. Water disinfection

Bromine:

Bromine is a powerful oxidant that is ideal for disinfecting pool water to the same degree of efficiency as chlorine. It is extremely effective against bacteria, viruses and fungi, in addition to removing organic impurities from the water. However, in contrast to chlorine it does not give off

unpleasant smells or irritate the mucous membranes, and is extremely tolerant to increases in temperature and changes in pH, which makes it ideal for indoor pools, pools with heat pumps and spas.

CTX-130 Bromine 20gr.

Bromine is a powerful disinfectant that can be used as an alternative to chlorine.

As it has a high tolerance to temperature changes and variations in pH levels, it is ideal for indoor pools, pools with heat pumps and spas.

Active oxygen:

Active oxygen treatment that consists of the simultaneous use of oxygen-based products alongside an activator. It is compatible with other chlorine- or bromine-based treatments.

An active oxygen treatment is certainly not

as strong as treatments performed using bromine or chlorine. It is recommended for private pools that undergo thorough, regular maintenance in which children, old people or people allergic to chlorine swim.

Note:

In the pool water should always be a residual disinfectant products that we are using as chlorine or bromine to the water has disinfecting power against potential pathogens that may exist in the water.



3. Maintain balanced water



In addition to disinfecting pool water every week it must also be maintained. The use of maintenance products helps to keep the water in perfect condition, prevents the proliferation of algae and foam, and saves you from having to resort to aggressive shock treatments.

Keeping your pool water crystal clear

Pool water often loses its transparency and becomes cloudy due to:

- Algae, bacteria and organic matter in the water.
- Precipitation of calcium and magnesium salts.
- Dust introduced by the air or bathers.
- Oxidation of iron and manganese salts.
- Mud in rainwater, etc.

Clarifiers or flocculants are products that help the filter and/or skimmer absorb the smallest particles by grouping them together, which makes them easier to remove.

These products prevent cloudiness and the appear-

ance of foam, as well as helping to eliminate any oils and creams floating on the water, which in turn keeps the filters running more efficiently.

To keep your pool water crystal clear, we recommend using clarifiers on a weekly basis, which together with your disinfectant will help you enjoy the benefits of perfectly clean water for longer.

The single-dose products and the concentrated range make them easy to use, thus eliminating the need for complicated calculations and allowing them to act for longer periods of time.

Pool Gel - Single-dose clarifier gel. Add once a month for sparkling clean water.

There are also natural products such as Natural Clarifier by CTX that is made from chitosan (crustacean shells) and is compatible with all kinds of pools. The most natural treatment for a sparkling clean pool.



Pool Gel

Natural Clarifier

Prevention against algae

Even when your pool is disinfected, algae growth can appear caused by chemical residue or external agents such as plants or trees around the pool, rain, sharp temperature changes, etc.

To prevent these problems, we recommend using once a week a phosphate removal products; Phosphates are fertilizers that act as nutrients for algae; eliminating the phosphates destroys the algae's food supply and therefore inhibits growth.

Algae, the longer it takes to treat them, the harder it is to remove them, so it is recommended,

should not use a remover phosphates add weekly proper dose of product algacide and / or each time you enter new water the pool.

Concentrates formats allow easy use and forgetting complicated calculations and enabling systems and extend their action longer, an easy and simple way.



PhosFree

Concentrated Algacide



Extraordinary range

Prevention is the best way there is of ensuring that a pool will be fit for purpose throughout the bathing season and that no problems will arise from its use.

Just as in life, prevention is better than cure. CTX has therefore launched a selection of products it calls its “extraordinary range” that will help you avoid problems and ensure your pool is in optimum condition at all times.

CTX CARE PODS

A revolutionary product in single-dose tablets that helps prevent problems that are common to all pools: **cloudy water, the formation of foam and the removal of phosphates**. Moreover, it is a totally **natural product**, in line with the company’s commitment to sustainable innovation.

One of the advantages of CTX CarePods is that they are easy to use thanks to the packaging in **water-soluble film**. All users have to do is to place a pod in their pool’s skimmer basket and wait for the product to follow its natural course of action of dissolving in the water, without the need for them to make complex calculations or use dosing systems. The results can be seen in less than 24 hours.

It is estimated that **one dose** of CTX CarePods **per week** is enough to keep the water in a 50 m³ pool crystalline, free of algae, traces of body oil and cream.

They are sold in packs of four and are compatible with all disinfection systems.





CTX POOL GEL

Enjoying a crystal clear swimming pool is easier than ever before with the CTX-39 Pool Gel clarifier.

Its **single-dose** presentation means it is easier to measure out the CTX product more precisely, without needing to deal with complicated dosing systems. Just **one block a month** for a 50 m³ pool is enough to keep pool **water crystal clear**.

With the CTX-39 Pool Gel, cleaning pools has become a much more efficient and ecological process. It is very easy to use as it works during the night, when it gathers colloid particles and algal spores to make it **easier for the filter to absorb them**.

The gel's clarifying agent not only helps eradicate the suspended particles that cloud the water, it also improves the efficiency of disinfectants and helps to adjust chlorine and pH to their optimum levels.



CTX PHOSFREE

Because prevention is better than cure

This concentrate **prevents the formation of algae** as a result of chemicals, garden fertilisers and other contaminating agents. **It removes** the phosphates on which **algae feed**, thus inhibiting their growth. If they have nothing to feed on, these annoying organisms that are so difficult to remove will not appear ever again.

A single pack will protect your pool for as long as **13 weeks**. (*)

All pool types

- Compatible with all types of disinfectants
- Easy to use
- Improves the performance of salt chlorinators
- We have test strips that measure phosphate levels



(*)Add 80 ml a week for a pool of 50 m³

NATURAL CLARIFIER

The natural way to make water clean and transparent.

This **natural clarifier** made from chitosan (crustacean shells) is the most effective weekly treatment **for preventing the formation of foam and cloudiness** in pool water.



A single pack will keep your pool water crystal-line for as long as **25 weeks. (*)**

For all types of pools

- Keeps water **crystal clear**, which helps the filter collect dirt
- **Removes all traces of oil**, cream and foam
- Is compatible with all types of disinfectants
- **Removes excess metal precipitates**
- Is easy to use
- Makes cleaning filters easy
- **Is compatible with all types of filter**

(*)Add 40 ml a week for a pool of 50 m³

More Power in each drop!

The CTX Super **Concentrated Range** will make your pool maintenance more practical and cheaper. Thanks to their increased efficacy, **you will reduce your consumption** of these types of chemical products and be able to add the exact dose you need.

Forget complicated dosing systems and carry heavy packs and find you special range of concentrates.

The revolutionary **dosing cap** will enable you to add exactly the amount of the product you need, thus helping you to make saving and use it **more efficiently**.



your pool's capacity

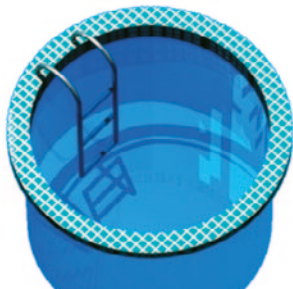


Before beginning any treatment of your pool, you should know its capacity.
That way, you will be able to calculate the exact dose of the chemical products that you should add to the water.

1 ppm Cl = 1 (mg Cl/L pool water) = 1 (g Cl /m³ pool water)

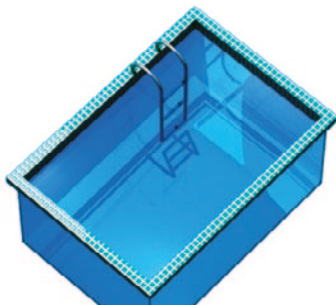
ROUND POOLS

$$\begin{aligned} &\text{Length (m)} \times \text{width (m)} \times \\ &\text{Av. depth (m)} \times 0,78 = \\ &\text{Volume (m}^3\text{)} \end{aligned}$$



RECTANGULAR/SQUARE POOLS

$$\begin{aligned} &\text{Length (m)} \times \text{width (m)} \times \\ &\text{Av. depth (m)} = \text{Volume (m}^3\text{)} \end{aligned}$$



OVAL POOLS

$$\begin{aligned} &\text{Length (m)} \times \text{width (m)} \times \\ &\text{Av. depth (m)} \times 0,89 = \\ &\text{Volume (m}^3\text{)} \end{aligned}$$



The physical treatment of a pool is just as important as the chemical treatment of water. In order for any disinfectant to perform effectively, the water should have optimum filtering conditions.

Filter

Air, swimmers and the environment bring impurities into the water, which causes cloudiness and turns into food for bacteria and algae. They should therefore be removed with the help of filtering equipment. The filter retains particles of dirt, thus keeping water transparent and crystalline. It is important to ensure that the filter is in working good conditions and that the full volume of water is filtered at least once a day.



Infinity pools versus pools with skimmer

Infinity pools are those pools where the water level spills over the rim.

How the infinity system works?

The water continuously overflows the edge and is collected in the peripheral canal surrounding it. Once in the channel, the water proceeds to the purification system.

Infinity pools allow constant and complete renovation of the water in a short period of time. Filtration: faster filtering = greater hygiene

In this way, the water is kept very clean and clear.

The Skimmer

The main function of the skimmer is to draw the water from the pool and send it to the filtration system. The pump is connected to the skimmer at the bottom and when put into operation creates a movement in the water which attracts dirt to the skimmer

The skimmer system is as effective as that of infinity pools. Between the two, the only comparative drawback is that while the skimmer may be installed in any pool, the overflow system of the infinity pool cannot.

In addition, the skimmer system is much cheaper, which means significant savings compared to infinity pools.



Pool set-up must be performed at the beginning of every season.
It is important to follow the correct procedure to avoid problems during the swimming season.

- 1 Check that your pool equipment (pump, filter, etc.) is working properly.
- 2 Empty the pool if necessary and clean the shell using the CTX-51 extra strong de-scaler. The cleaning of the shell should be performed when there is little sunlight, and the pool walls and bottom kept humid. Apply the CTX-51 extra strong de-scaler. Then let the product act for half an hour and rinse with water.
- 3 Fill the pool once the shell is clean.
- 4 Test the Ph level of the water and if necessary adjust it to between 7.2 and 7.6 using the CTX-10 pH- pH reducer or the CTX-20 pH+ pH enhancer.
- 5 Perform a chlorine shock treatment using CTX-200GR ClorShock granules (15 gr per m³ of water) or fast-action CTX-250 ClorShock 20 gr tablets (1 or 2 tablets per m³ of water). If it takes more than a day to fill your pool, it is recommended to stagger the dose of the CTX-200GR ClorShock granules or the CTX-250 ClorShock tablets during the operation.
- 6 Adjust pH and chlorine and start the maintenance programme



CTX-51



CTX-200GR ClorShock



CTX-10pH-

CTX-20pH+

DAILY

- 1 Test the water's pH and adjust it to between 7.2 and 7.6 using CTX-10 pH- or CTX-20 pH+ if necessary.



- 2 Test the level of free residual chlorine or bromine (depend of the product used). The chlorine must be kept at between 1 and 2 ppm and the bromine between 2-4 ppm. If you use a dispenser, set it to ensure this level is maintained.

- 3 Clear the water of leaves and insects.



CTX-10 pH-

CTX-20 pH+

WEEKLY

- 1 Clean the skimmers and scrub the shell walls.
- 2 Then clean the pool using the pool bottom cleaner.
- 3 Backwash the filter and clean the pump's pre-filter.
- 4 Top up the skimmer or dispenser with trichlorine CTX-370 ClorLent 250 gr tablets or CTX-130 Bromine tablets on the dispenser (see "What do I do if the water is not crystalline?").
- 5 Use your maintenance product to prevent algae growth, CTX PhosFree or AlgaStop Ultra and a clarifier to enjoy a clear and transparent pool, like the Natural Clarifier or Pool Gel



CTX-370 ClorLent 250 gr.



PhosFree

CTX-500C
concentrated

ALWAYS REMEMBER

- ✓ To keep the water at its proper level.
- ✓ To test the chlorine and pH levels when you add new water and adjust them if necessary.
- ✓ To increase the amount of chlorine and clarifier whenever there is a threat of rain.
- ✓ To check that the chlorine dispenser is working properly at all times.

Winter Care Treatment

CTX
Professional



1

When the water temperature is below 15°C, adjust the pH to between 7.2 and 7.6 using CTX-10 pH- pH reducer or CTX-20 pH+ pH enhancer and perform a chlorine shock treatment using CTX-200GR ClorShock (15 g per m³ of water).

2

Leave the filter running and the next day add the winteriser CTX-550 WinterStar or CTX-551C WinterStar Power if you have a fibreglass, liner or polyester pool. This procedure stabilises the water to prevent algae from growing and insects from hatching.

3

Test the water pH level. If it is not between 7.2 and 7.6, correct it using the CTX-10 pH reducer or the CTX-20 pH+ enhancer and leave the filter on for 8 hours to ensure an even distribution of the product in the water.

4

Clean the filter using the CTX-55 descaler. Remember to thoroughly backwash and rinse the filter after you have cleaned it and cover your pool with a pool cover

If you have salt chlorinator, you must disconnect and hibernate the device, then you must perform the chemical treatment of hibernation in this way, salt chlorinator equipment may have greater durability

IT IS IMPORTANT TO REPEAT ALL OF THESE STEPS IN THE MIDDLE OF THE WINTER SEASON

CTX-200GR ClorShock



CTX-10 pH-



CTX-550C
WinterStarPower

CTX-20 pH+



Test kit



CTX-55



What do I do if the water is not crystalline?

In order to ensure your water is crystalline and disinfected, we recommend the following treatment.

INITIAL TREATMENT

Place 15 gr of CTX-200GR ClorShock granules, or 1 or 2 tables of CTX-250 ClorShock 20 gr for each 10 m³ of water in your skimmer or dispenser.

To complete the treatment, add 160 ml. CTX-500 C AlgaStop Power or 200 ml of CTX-530C AlgaStop Ultra Power for every 50 m³ of pool water in a container with water and pass it out evenly across the surface of the pool.

MAINTENANCE TREATMENT

Once a week after the initial treatment, place 1 tablet of trichlorine CTX-370 ClorLent 200 gr in the skimmer or floating dispenser for every 20 m³ of water. It will dissolve slowly to give continued disinfection. To complete the treatment, once a week Add 40 ml. CTX-500C Power AlgaStop or 50 ml of CTX-530C AlgaStop Ultra Power for every 50 m³ of pool water in a container with water and pass it out evenly entire pool surface.



CTX-200GR ClorShock



CTX-500/s AlgaStop Super
CTX-530 AlgaStop Ultra



CTX-370 ClorLent 250 gr.



CTX-500/s AlgaStop Super
CTX-530 AlgaStop Ultra



Precautions

- Read labels carefully and follow instructions before using any chemical products

- Add one product first and then another to avoid possible chemical reactions.

- Do not mix different products together.

- Never pour water directly over a product if it has to be diluted. Add it directly to the pool water, or to dispensers or skimmers.




- Keep containers tightly closed, in a cool, dry place and out of the reach of children.

- In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.





- Avoid pool products coming into contact with other chemical products.

- When you have to add chemicals directly to the pool water, this operation will be provided without the presence of swimmers in the water.



Problem	Cause	Solution
 Cloudy water	<ul style="list-style-type: none"> • Poor filtration • High pH • Excess organic matter • High hardness 	<p>Perform a backwash filter.</p> <ul style="list-style-type: none"> • Analyze and adjust pH between 7.2 and 7.6. • Add 15 g. CTX-200 / GR ClorShock per m³ of water. • With filtration equipment stopped, add 1L. CTX-41 Flocculant by 100 m³ of water. <p>Finally, at about 8 hours proceed to collect and remove the layer of floc deposited at the bottom of the pool.</p> <ul style="list-style-type: none"> • If the problem is the hardness, in addition to the above add CTX-605 calcium hardness reducer
 Green water	<ul style="list-style-type: none"> • Formation of algae • Low alkalinity (esmerald green) 	<p>Formation of algae</p> <ul style="list-style-type: none"> • Analyze and adjust pH between 7.2 and 7.6. * Add 15 g. CTX-200 / GR ClorShock per m³ of water. • Add 250ml of CTX-530C AlgaStop Ultra Concentrated for every 50 m³ of water. <p>Low alkalinity</p> <ul style="list-style-type: none"> • Analyze and adjust pH between 7.2 and 7.6. • Add CTX-21 alkalinity increaser (125-150 ppm).
 Brown water	Presence of iron or manganese	<ul style="list-style-type: none"> • Analyze and adjust pH between 7.2 and 7.6. * Add 15 g. CTX-200 / GR ClorShock per m³ of water. * Then add 1 l of CTX-41 Flocculant for every 100 m³ of water, wait 8 hours and pick up any remaining sediment at the bottom. * Add CTX-604 iron chelators that prevents that not happen again (working at pH 6.8 to 6.9).



	Problem	Cause	Solution
	Stains on walls	Presence of metal ions	Empty the pool and clean stains with CTX-51 extra strong descaler.
	Scale in water	Precipitation of calcium salts	Adjust the pH with CTX-10 pH- or CTX-20 pH+ to between 7.2 and 7.6. Add CTX-700 Extra Anti-Lime once a week.
	Irritation to eyes and skin	pH unadjusted	Analyze and adjust pH between 7.2 and 7.6.
	bad smells	Organic residues excess	Perform chlorine shock treatment with 15 gr of CTX-200/GR ClorShock for every m3 of water.



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