

# SIAM POOLS

## THE POOL CLINIC BASIC POOL CARE



Email: [info@siampoolshop.com](mailto:info@siampoolshop.com)

Website: [www.siampoolshop.com](http://www.siampoolshop.com)

[www.thepoolclinic.com](http://www.thepoolclinic.com)

Hua Hin

032 442 822

Samui

077 602 444

Chiangmai

053 854 785







## Perform Regular Maintenance

**Check Water Level:** It is important to maintain proper water level in your pool. A low water level can lead to pump damage. The correct level is usually in the middle of the skimmer opening or midway up the tile.

**Skim the Surface and the Pool Floor:** Use a Skimmer Net to collect all floating debris, such as insects, grass clippings and leaves. If leaves and large debris have accumulated on the bottom, remove them with a Skimmer Net to avoid staining and to prevent clogging the main drain or vacuum equipment.

### **Clean the Tile or Vinyl Liner Sides:**

Brush it regularly to avoid staining. Note: Persistent heavy scaling indicates a serious water problem. If this occurs, check the water balance.

**Brush the Pool:** The ring or scum line that forms on the tile is a combination of oil and dust. Spend 10–15 minutes twice a week brushing the pool walls, steps, and bottom. This should be done even if your pool has an automatic pool cleaner. Brushing does not require great strength. Brush strokes should be slow and smooth and should overlap. Brush from the tile line down, always working toward the main drain. Using a **Nylon-Bristle Brush**, start at the shallow end and work toward the main drain (if applicable). The surface skimmer should be shut off or set at a minimum to provide maximum suction at the main drain. When finished brushing, return the skimmer and main drain setting to normal operations if applicable. (80% skimmer and 20% main drain is recommended.)

**Check the Skimmer and Pump Strainer Baskets:** The pool surface skimmer baskets and the pump strainer baskets should be checked weekly. In windy weather they should be checked **at a minimum once daily**. Clean out the baskets using a garden hose with a high-pressure nozzle. This will ensure proper flow and efficient suction for brushing and vacuuming. Failure to clean the baskets will result in their damage and possible damage to the pump. Also, check the skimmer cover for cracks, the **Pump Lid** and **Lid O-ring** for damage, and check for leaking water.

**Service the Filter:** The circulation system will operate more efficiently and the filter will last longer if it is backwashed or cleaned regularly and thoroughly. As a general rule, the filter should be cleaned when the filter pressure gauge indicates a rise of 8-10 psi above the starting pressure. Bleed trapped air from the filter using the air-relief valve if so equipped. As a rule of thumb, your filter should run 8-12 hours during the season and 4-6 hours in the off-season.

**Rinse the Deck:** The pool area should be rinsed before swimmers enter the pool/patio area. This will prevent dirt from being tracked into the water. When rinsing, be careful not to allow the dirty water to get into the pool. The decking and coping should be scrubbed periodically with a stiff nylon brush. Follow the recommendations of the pool builder. Concrete or stone decking (and possibly wood decking depending on the type of wood) should be washed down with a five percent chlorine solution (1 fluid ounce of bleach to 20 fluid ounces of water) to kill bacteria and prevent infection. A concrete cleaner or surface-specific cleaner may also be used if applicable.

**Vacuum the Pool:** Vacuuming will give your pool the most thorough cleaning during normal maintenance. Generally, the pool should be vacuumed once a week. If high winds or heavy usage have occurred, more frequent vacuuming will be necessary. The method of vacuuming is essentially the same from pool to pool. The only variance is attributable to differences in skimmer or suction hookups.



# THE POOL CL IN C

IT'S ALL ABOUT CHEMISTRY



## The Pool Clinic Water Testing and Analysis

Your pool water should be tested two to three times a week (pH / chlorine). Keeping track of your water balance will create an optimum swim environment for you and your guests and ensure a long life for your pool.

The most important factor to your water balance is the pH. The pH sets the tone for your water and keeps it clear and inviting.

Water Balance is the correct ration of mineral content and pH level, which prevents the pool water from being corrosive or scale forming. The Elements of Water Balance must fall within a specific range to ensure proper water balance. After testing, simple raise or lower the elements to the proper range to balance the water. The Pool Clinics services provides cleaning and preventative maintenance using "Palintester" water analysis equipment, making sure that your water is balanced correctly.

### The Following are tested Regularly

**pH** pH is the value that determines how acidic or basic solution is. Th pH is important because when pH is the right range it provides comfort to the swimmer, when it is not I will do the opposite. (Red eyes etc) pH also improves the killing power of sanitizer. Think about this: ph of our skin blood and eyes is 7.4—7.6 and the pH of lemon juice is 4.0 which is very low

#### LOW pH will cause:

- Etched plaster
- Corroded metals
- Stained plaster
- Eye and skin irritation
- Lower of Total Alkalinity
- Increased chlorine usage
- Stretching vinyl liners
- Blistering of fiberglass

#### HIGH pH will cause:

- Scale formation
- Cloudy water
- Short filter runs
- Eye & skin irritation
- Poor chlorine efficiency

Ideal range: 7.4—7.6

## Test Chlorine

**Test your chlorine levels 2 to 3 times per week or daily on hot days, using test kits or test strips to ensure that your chlorine level is maintained on an ideal lever and/ or your salt Chlorinator is generating enough to sanitize your pool**

- Ideal level 2—4 ppm
- Minimum level 1.5 ppm
- Maximum level 10.0 ppm

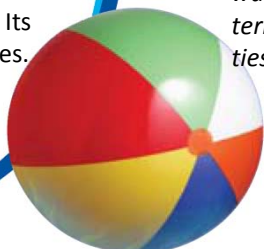
*Salt chlorinators generates hypochlorite or chlorine gas and when added to the water, it forms hypochlorous acid (HOCl), which acts as a disinfectant (kills bacteria, algae etc) as well as oxidizer (removes organic and inorganic impurities—chloramines) you will need to super chlorinate at least once per month.*

### Myth

Chlorine Burns Your Eyes When You Open them Underwater

### Fact:

Low pH burns your eyes when you open them underwater. A pool that has low pH means that the water is acidic. Its like putting lemon juice in your eyes.





# THE POOL CLINIC

IT'S ALL ABOUT CHEMISTRY



The Following are tested once per month

## Calcium Hardness

Calcium Hardness is the measure of calcium in the water. Water must have a certain amount of calcium in it for it to be "balance with the other elements". The goal is neutral or inert water. Without calcium this cannot be accomplished.

### LOW Calcium will cause:

- Difficult balancing water
- Etching of plaster
- Corrosion of metal components
- Eye and skin irritation
- Water foaming

### HIGH Calcium will cause:

- Scale Formation on pool surface and equipment
- Cloudy water
- Eye & skin irritation
- Difficulty balancing water
- Chemicals become less effective

Ideal range: 200—400 ppm (mg/l)

## Total Dissolve Solids

TDS is the sum of all materials in the water. It increases whenever water evaporates out of pool. In essence distilled water leaves the pool and all of the solids stay behind.

### Total Dissolved Solids (TDS)

- Ideal: 1000—1,500 ppm after Salt Level

### Salinity Level (Total Dissolve Salt in water)

- 4000—6000 ppm (depending on the minimum amount of your chlorinator)

### HIGH TDS / Salinity will cause:

- Salty Tasting water
- Colored but clear water
- Algae
- Corrosion of metal parts
- False readings
- Cloudy water
- Eye and skin irritation

## Total Alaklinity (TA)

Total Alkalinity (TA) acts to stabilize pH and to maintain the proper pH levels. One cannot be adjusted without affecting the other.

### LOW Total Alkalinity

- Etched plaster
- Corroded metals
- Stained plaster
- Eye and skin irritation
- pH bounce (high or low)

### HIGH Total Alkalinity will cause:

- Scale formation
- Cloudy water (usually due to high pH)
- Difficulty changing or maintaining pH
- Eye & skin irritation

Ideal range: 80—120 ppm

## Water Chemistry

The Pool Clinic believes that properly maintaining pool water chemistry is perhaps the most important aspect of maintaining a swimming pool. Proper water chemistry is required to keep a swimming pool safe and clean for swimmers.





## Water Balance (should be checked once per month)

Pool Water balancing is not such a complicated exercise. It is simply the relationship between different chemical measurements in your pool water. Your pool water is constantly changing, year round. Everything from weather to oils, dirt, and cosmetics affect your pool water balance - in short, anything that comes in contact with your pool water.

You will probably not change the water in your pool for many years. Continuous filtration and disinfection removes contaminants which keep the water enjoyable but this does not balance your water. A pool that is "balanced" has proper levels of [pH](#), [Total Alkalinity](#), and [Calcium Hardness](#).

When water is considerably less than saturated it is said to be in a corrosive or aggressive condition. When water is over saturated and can no longer hold the minerals in solution it is in a scaling condition. So then, balanced water is that which is neither over or under-saturated.

The cliché that "water seeks its own level" certainly applies here. Water which is under-saturated will attempt to saturate itself by dissolving everything in contact with it in order to build up its content. Water which is over-saturated will attempt to throw off some of its content by precipitating minerals out of solution in the form of scale. How do we know when our water is over or under saturated? We use a Palintester, a recognized system for water analysis, to measure the chemical levels of pH, alkalinity, and calcium hardness.

Index	Water Balance condition	Recommendation
<b>Below 9.6</b>	Highly Corrosive	<ul style="list-style-type: none"> <li>• Increase pH to 7.5 -7.8</li> <li>• Increase Calcium Hardness to at least 50 mg/l</li> <li>• Increase Total Alkalinity to 100 mg/l or higher as necessary</li> <li>• Retest Water Balance</li> </ul>
<b>9.6 to 10.5</b>	Corrosive	<ul style="list-style-type: none"> <li>• Increase pH to 7.5 -7.8</li> <li>• Increase Calcium Hardness to at least 50 mg/l</li> <li>• Increase Total Alkalinity to 100 mg/l or higher as necessary</li> <li>• Retest Water Balance</li> </ul>
<b>10.6 to 10.9</b>	Acceptable Balance	<ul style="list-style-type: none"> <li>• Retest Water Regularly</li> </ul>
<b>11 to 11.2</b>	Ideal Balance	<ul style="list-style-type: none"> <li>• No Action Required</li> </ul>
<b>11.7 to 12.6</b>	Scale Forming	<ul style="list-style-type: none"> <li>• Decrease pH to 7.2 – 7.5</li> <li>• Decrease Total Alkalinity to 150mg/l or lower as necessary</li> <li>• Retest Water Balance</li> </ul>
<b>Above 12.6</b>	Highly Scale Forming	<ul style="list-style-type: none"> <li>• Decrease pH to 7.2 – 7.5</li> <li>• Decrease Total Alkalinity to 150mg/l or lower as necessary</li> <li>• Retest Water Balance</li> </ul>



# THE POOL CLINIC

IT'S ALL ABOUT CHEMISTRY



## Recommended Shopping List

Description	sale price
EMUAX CE102 Leaf skimmer, deep Bag (ตะแกรงช้อนขยะ) 	800
EMUAX CE201 Nylon Brush 18" อีมีช ซีอี สอง ศูนย์หนึ่ง ไนลอน บริสเชิล (แปรงไนลอน แบบตรง) 	990
POOLSPA Vacuum head 14" เทลถืออปปีก แสนเดิล (ด้ามแปรง) 	2200
EMUAX CE132 Aluminum telescopic pole with grip&lock 16" (ด้ามแปรง) 	1500
EMUAX Heavy Duty Vacuum hose 11m 	2520
pH & Cl test kit 	650

“Prevention is better than cure”



**Pool Blocks® All Seasons Algicide** is an extra strength, slow release solid tablet algicide suitable for fibreglass and vinyl liner pools. They are an excellent Blackspot killer and long life algicidal treatment. The combination of Pool Blocks® and chlorine is always better than just chlorine alone.

**Pool Drops® Liquid Algicide Plus** is an extra strength, long term algicide that is ideal for concrete & marblesheen pools in both summer & winter. It is an excellent treatment for all forms of wall based algae and a long life algicidal treatment. Compatible with salt water, ozone, ultraviolet and chlorine systems.

**Price Baht 1,350 each**

**Full Set Special Price Baht 7,500 only**