



Advanced Pool and Spa Products®

A division of Chem-A-Co Inc.

Pool and Spa Guide

Manufactured by:
Advanced Pool and Spa Products, Inc.

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The non-chlorine switch



The Advanced Pool and Spa System is an advanced breakthrough in the Pool, Spa and Hot Tub treatment. What would you think of a system that allows you to spend more time enjoying your Pool, Spa or Hot Tub instead of wasting all your valuable time monitoring and treating the water? The Advanced Pool and Spa System does just this. This system also allows you to make the choice to use chlorine or not. You can spend less time treating, cleaning and worrying about the Pool, Spa or Hot Tub, and do what is important to you, ENJOY YOUR POOL.

[Advanced Blue®](#) will not burn off or evaporate like chlorine. [Advanced Blue®](#) has the unique ability to stay suspended in the water until there is a need for the copper. This makes your life easier and more enjoyable because you do not need to continually monitor your pool.

Unlike chlorine, [Advanced Pool and Spa Products®](#) will leave your water with no bad chemical taste or odor. Now you will be able to relax and enjoy your pool, spa or hot tub without the harsh effects of chlorine. Are you tired of having your swim suits and pool liners faded using chlorine? Does chlorine make your skin feel dry and itchy? If so and you want your skin to feel soft and smooth, make the switch to [Advanced Pool and Spa Products®](#).

Pool water should always be monitored closely regardless of the treatment chemicals you use. Maintaining correct water balance will help eliminate any headaches you may have during the pools operation. Since [Advanced Pool and Spa Products®](#) are applied every two weeks you can swim after adding it to the pool water. This system eases the burden of when to treat and how long do I need to wait before I can swim.



Components of the Advanced System

Listed below are the four major components of the Advanced Pool and Spa System®. Each component is designed and manufactured to meet a specific need for this system and should not be substituted with a generic or similar product. If you wish to use chlorine with this system we recommend non-calcium hypochlorite, also permissible is Lithium or Sodium hypochlorite.

Advanced-Prep®

Advanced-Prep® is the first step of this system. Advanced-Prep® will prepare the water for the rest of the system. Advanced-Prep® pulls unwanted minerals and metals out of the water where they will be filtered out of the system. After the use of Advanced-Prep® it is recommended to backwash the filter. It is also recommended to use Advanced-Prep® at the start of each new season. In the event new water needs to be added and the new water has high calcium content, APSP® recommends adding Advanced-Prep® accordingly with amount of new water added.

Advanced-Shock®

Advanced-Shock® is an oxidizer that removes unwanted organics such as oils, dried skins, etc. Without the use of Advanced-Shock® you may experience cloudy water. Advanced-Shock® is used in conjunction with Advanced-Clear® and Advanced-Blue®. It is strongly recommended to use the Advanced-Shock® and not others shock products on the market. Applications may vary depending on bather load of the Pool, Spa or Hot Tub.

Advanced-Clear®

Advanced-Clear® is used to eliminate unwanted minerals which may be added with makeup water. Advanced-Clear® will reduce minerals that may cause staining, scaling and clouding of water. Advanced-Clear® will be added once every two weeks, and works best in pool water not containing elevated levels of iron and calcium.

Advanced-Blue®

Advanced-Blue® is also a key component to this system. The chemical composition in Advanced-Blue® is an Algicide / Bactericide like no other. Advanced-Blue® has an unique carrier which is bonded with the copper ion. Advanced-Blue® contains a minimal amount of non-chelated copper. Advanced-Blue® is also friendly to the environment. Advanced-Blue® will stay in the water column until there is a need. Advanced-Blue® is added every two weeks and may be checked with the Advanced Test Kit. Do Not Over apply Advanced-Blue®.

Advanced-Sparkle®

Advanced-Sparkle® is a new product for the APSP® system. Cloudy water is often an issue when swimming pools have a high bather load. In the event your pool, spa, or hot tub would become cloudy, Advanced-Sparkle® is your solution. Advanced-Sparkle® will grab onto the suspended particles which is often the cause for cloudy water and allow for them to settle to the bottom. Once the pool, spa or hot tub has been swept clean, and the filters have been backwashed or cleaned, the water should now be clear. Resume normal filter operation.

Balancing water with the Advanced Pool and Spa System

First, determine if you want to use chlorine in your pool, spa or hot tub or the **Advanced-Shock®**. The startup sheet will carry you through both applications. For the next step we need to know how many gallons of water that will be treated. If you know the treatable gallons then write them in the space below. If you are not sure of the gallons ask your dealer to calculate this for you. Remember that the treatable gallons need to be correct for accurate balancing of the pool water.

Treatable Water: _____ Gallons

Prior to starting with the Advanced Pool and Spa System you will need to have the Calcium Hardness, Total Alkalinity and pH within the following ranges.

Calcium Hardness:

Calcium Hardness needs run between the ranges of 200 and 300 ppm. If the calcium levels are high then you will need to dilute your pool, spa or hot tub with lower calcium level water. If the calcium level seems low normally this will not have an effect with the Advanced Pool and Spa System.

Total Alkalinity:

Total Alkalinity needs to be within the range of 70 to 90 ppm. If the alkalinity level is high then use (muriatic acid or sodium bisulfate). Apply by pouring directly in one spot, into the pool water (for spas use sodium bisulfate). When applying, turn off the pump and use 1 quart to every 10,000 gallons of water then turn and wait 24 hours then recheck. If needed repeat this process until the range is met.

If the total alkalinity is lower than 60 ppm, use an alkalinity increaser (sodium bicarbonate). Treat at a rate of 6oz. to total water volume, wait 24 hours and recheck. Now you will be able to calculate how much the total alkalinity increased and add accordingly. You may experience a cloudy or green tint to the water. Do not turn off the pump.

pH

pH needs to be within 7.2 and 7.6 If the pH is high you may use (muriatic acid or sodium bisulfate) as a pH deceiver. Broadcast over the surface of the water, follow label as directed. SAFETY FIRST!

If the pH is low, you may use (sodium carbonate) as a pH increaser. Apply according to the label directions.

Advanced Copper Test Kit

The copper content maybe checked with the Advanced Copper Test Kit. Use standard test strip for pH, Alkalinity and Calcium hardness. Always keep filters and skimmers clean and in good working condition. Once the water is balanced, we can start treating the water with the Advanced Pool and Spa System.

Advanced Pool and Spa Products®

Pool Start Up Guide

Getting Started with the APSP System

Are you going to use chlorine or not? Yes ___ No ___

What are the total gallons of your pool, spa or hot tub _____?

Is the water balanced to the following parameters?

Calcium Hardness between 200 and 300 Yes ___ No ___

Total Alkalinity 70 to 90 Yes ___ No ___

pH 7.2 to 7.6 Yes ___ No ___

Starting a Pool with fresh water using the APSP System

Add 2 ounces of Advanced-Prep® to every 1,000 gallons of pool water while waiting 5 hours before going to the next step.

Use chlorine for the next few days until pool water is crystal clear. Follow label directions as use as a normal chlorine shock.

Backwash filter

Apply 2 ounces of Advanced-Blue® to every 1,000 gallons of pool water. Wait 24 hours and recheck pH. **DO NOT** add more Advanced-Blue® for the next two weeks.

Two Weeks Later

At the end of two weeks, check pH and Alkalinity, readjust to proper levels if necessary. (See *Balancing the water with Advanced Pool and Spa System*)

Test Advanced-Blue® ppm, add according to test results. Refer to the Advanced-Blue® Maintenance chart on page? (*Do not exceed .9 ppm of Advanced-Blue®*)

Apply 16 ounces of Advanced-Shock® to each 10,000 gallons of pool water. Follow label directions for Advanced-Shock®.

Add 2 oz. of Advanced-Clear® to each 10,000 gallons of pool water. Follow label directions for continued applications.

Maintaining your pool with the APSP System

Every two weeks check and maintain Calcium Hardness, Total Alkalinity and pH to the recommended parameters above.

Test the Advanced-Blue® levels every two weeks and adjust accordingly referring to the Advanced-Blue® maintenance chart on page? **DO NOT** over apply Advanced-Blue®.

For a non-chlorine system use Advanced-Shock®, at a rate of 1 pound to every 10,000 gallons of water. Normal bather load add Advanced-Shock® every two weeks, heavier bather load every week.

Add 2 ounces of Advanced-Clear® to every 10,000 gallons of pool water every two weeks. Again, Do Not exceed .9 ppm of Advanced-Blue®.

Advanced Pool and Spa Products®

Spas and Hot Tub Start Up Guide

Treating spas and hot tubs is no different than swimming pools. Like pools, the main parameters for the balanced water are the same.

Is the water balanced to the following parameters?

Calcium Hardness between 200 and 300 Yes ___ No ___

Total Alkalinity 70 to 90 Yes ___ No ___

pH 7.2 to 7.6 Yes ___ No ___

1. Always start with fresh water and new filters. Water is recommended to be replaced every three months.
2. Make sure the water is balanced to the parameters above.
3. Due to the small amount of water being treated, the applications will be in milliliters.
4. Apply 10 milliliters of Advanced-Prep® to each 100 gallons of water. Run the filter for a minimum of four (4) hours.
5. Apply 10 milliliters of Advanced-Shock® to each 100 gallons of water. Circulate for a minimum of four (4) hours or apply 5 milliliters of sodium di-chlor.
6. Clean filter.
7. Apply 5 milliliters of Advanced-Blue® to each 100 gallons of water. Run the filter as recommended by your spa manufacturer. Keep in mind that you can never filter too much. Do Not apply Advanced-Blue® more often than every two (2) weeks.

Note: Apply 10 milliliters of Advanced-Shock® or 5 milliliters of sodium di-chlor after each use of the spa or hot tub. Only apply one time per day with jets running.

Every Two Weeks

1. Check and adjust the pH and Alkalinity as needed.
2. Check and adjust the Advanced Blue according to the chart.
3. Apply 1 milliliter of Advanced-Clear® to each 100 gallons of water.
4. Apply 1 milliliter of Advanced-Sparkle® to each 100 gallons of water.

Milliliters of **Advanced-Blue®** needed

Spa Gallons	150	200	300	400	500	600
.1 ppm	10	10	15	18	24	30
.2 ppm	6	10	12	15	18	22
.3 ppm	6	6	10	12	15	18
.4 ppm	3	6	6	10	12	13
.5 ppm	3	6	6	10	12	13
.6 ppm	3	3	6	6	10	11
.7 ppm	3	3	3	3	6	8
.8 ppm	0	0	3	3	3	3
.9 ppm	0	0	0	0	0	0

Initial **Advanced Blue®** Application Guide

When applying **Advanced-Blue®** for the first time find the gallons of pool water in the left column and look across to the right side .9 ppm column (Green). These are the required ounces of **Advanced-Blue®**. Next application refers to the maintenance chart below.

Pool Gallons	Copper ppm									
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
10,000	2	4	6	9	11	13	15	17	19	21
12,000	3	5	8	10	13	15	18	20	23	25
14,000	3	6	7	12	15	18	21	24	27	29
16,000	3	7	10	14	17	20	24	27	31	34
18,000	4	8	12	15	19	23	27	31	35	38
20,000	4	9	13	17	21	26	30	34	38	43
22,000	5	9	14	19	23	28	33	38	42	47
24,000	5	10	15	20	26	31	36	41	46	51
25,000	5	11	16	21	27	32	37	43	48	53
26,000	6	11	17	22	28	33	39	44	50	55
27,000	6	12	17	23	29	35	40	46	52	58
28,000	6	12	18	24	30	36	42	48	54	60
29,000	6	12	19	25	31	37	43	49	56	62
30,000	6	13	19	26	32	38	45	51	58	64
31,000	7	13	20	26	33	40	46	53	60	66
32,000	7	14	20	27	34	41	48	55	61	68
33,000	7	14	21	28	35	42	49	56	63	70
34,000	7	15	22	29	36	44	51	58	65	72
35,000	7	15	22	30	37	45	52	60	67	75

After first application of **Advanced-Blue®** refer to the Maintenance chart on the next page.

Advanced Blue® Maintenance Chart

Find your pool gallons on the left and find the known copper ppm on top. At the intersecting point are the required ounces of **Advanced-Blue®** to be added. **WARNING** Red is high, Green is good, Yellow is caution, and Orange is too low.

POOL GALLONS	Copper ppm									
	0.1ppm	0.2ppm	0.3ppm	0.4ppm	0.5ppm	0.6ppm	0.7ppm	0.8ppm	0.9ppm	1 ppm
10,000	17	15	13	0	8	6	4	2	0	-2
12,000	20	18	15	13	10	8	5	3	0	-2
14,000	24	21	17	15	12	9	6	3	0	-2
16,000	28	24	21	17	14	11	7	4	0	-3
18,000	31	27	23	20	16	12	8	4	0	-3
20,000	34	29	25	21	17	12	8	4	0	-5
22,000	37	33	28	23	19	14	9	4	0	-5
24,000	41	36	31	26	20	15	10	5	0	-5
25,000	43	37	32	27	21	16	11	5	0	-5
26,000	44	39	33	28	22	17	11	6	0	-5
27,000	46	40	35	29	23	17	12	6	0	-6
28,000	48	42	36	30	24	18	12	6	0	-6
29,000	50	44	37	31	25	19	13	7	0	-6
30,000	52	45	39	21	26	20	13	7	0	-6
31,000	53	47	40	34	27	20	14	7	0	-6
32,000	54	47	41	34	27	20	14	7	0	-6
33,000	56	49	42	35	28	21	14	7	0	-7
34,000	58	50	43	36	29	21	14	7	0	-7
35,000	60	52	45	37	30	22	15	7	0	-8

CAUTION:

Do Not add **Advanced-Blue®** more often than every two weeks. When **Advanced-Blue®** is topped off more often than once every two weeks, you spend more money than necessary on **Advanced-Blue®** and take the risk of overdosing and staining the pool.

Advanced Pool and Spa Products® Application Guide

Find your pool gallons in the left column, and then follow that to the right, this will tell you the amount of each product to add in ounces.

Test [Advanced-Blue®](#) and adjust according to the Maintenance chart below.

Shock with 16 ounces of [Advanced-Shock®](#) per 10,000 gallons of water. You may need to shock every week if pool usage is high

Pool Gallons	Advanced Prep Ounces	Advanced Clear Ounces	Advanced Shock Ounces	Advanced Shock Cups
10,000	20	2	16	1/2 Cup
12,000	24	2.5	18	
14,000	28	3	22	
16,000	32	3	26	3/4 Cup
18,000	36	3.5	29	
20,000	40	4	32	1 Cup
22,000	44	4	35	
24,000	48	5	38	
25,000	50	5	40	1-1/4 Cup
26,000	52	5	42	1-1/4 Cup
27,000	54	5.5	43	
28,000	56	5.5	45	
29,000	58	6	46	
30,000	60	6	48	1-1/2 Cup
31,000	62	6.5	50	
32,000	64	6.5	51	
33,000	66	7	53	
34,000	68	7	54	
35,000	70	7	56	1-3/4 Cup

Do Not Pour through Skimmer. You do not need to wait between applications of the different products. You may swim immediately after adding [Advanced-Blue®](#) and [Advanced-Clear®](#), but you should wait at least 30 minutes after adding [Advanced-Shock®](#).

Test and adjust total alkalinity and pH as necessary.

pH 7.2 to 7.6

Total alkalinity 70 – 90 ppm

DO NOT! use the Advanced Pool and Spa System with another product without contacting your [APSP](#) representative.