Element™

Element™ Water Testing

When testing Element mineral salt pools, all general parameters remain the same as per the Langelier Index for water chemistry and Australian Standards such as chlorine levels, pH level, Total Alk, metals etc. However like any true mineral water pool there are some unique factors; such as salinity readings, TDS and hardness levels (calcium and total hardness).

*ALL MEASUREMENTS PPM	FREE CHLORINE*	pH	TOTAL ALKALINITY*	CALCIUM HARDNESS*	CYANURIC ACID*	IDEAL SALINITY LEVEL*
IDEAL FOR ELEMENT	1 - 3	7.2 - 7.6	80 - 120	200 - 400	30 - 50	4,000ppm Salt 5,000ppm TDS
TO INCREASE	Press Boost	Add Soda Ash **(use pH UP)**	Add Sodium Bicarbonate (Use **Alkalinity UP**)	Add Calcium Chloride (use **Calcium UP**)	Add CYA (use **UV Blockout**)	Add Element Mineral Salts
TO DECREASE	N/A	Add acid (use **pH DOWN** or Liquid Acid)	Add acid (use **pH DOWN** or **Liquid Acid**)	Partially drain/refill (or use **Calcium Down**)	Partially drain/refill	Partially drain/refill

Important Information

» When performing a **Calcium Hardness test**, ensure it is a **TRUE** Calcium Hardness test. Many readers perform a total hardness test and interpret the results as calcium. If your Calcium Hardness appears to be too high, this could be the reason. If the pool has been balanced for hardness (calcium at 200-400ppm) prior to addition of Element mineral salts, then as an estimate calcium hardness will be 30% of the total hardness. E.g if total hardness is 800ppm, then Calcium is approximately 240ppm (within range)

Zodiac has a specific test kit to test for magnesium hardness, calcium hardness and total hardness (this is only available to pool shops). We recommend visiting the pool shop to conduct this test at least once per season. (these will be available early 2015)

» Magnesium Chloride is very hygroscopic, which means it does not dissolve the same as traditional salts. i.e for every 10kg bag of Element added only 9kg will show as salinity. When adding Element mineral salts, please follow the dosage charts on the flip side of this card.

If you are trying to determine the actual salinity of the Element Mineral Salt pool use this simple conversion method - To **convert TDS** levels to Salt, multiply the TDS result by a factor of 0.68. e.g. if TDS is 6000ppm.
Salt = 6000 * 0.68 = 4020ppm

Installing Element on new and existing pools

Use the dosage rates as outlined in these tables when installing Element Mineral Salts.

NOTE: Element Activate is only required for pools with salinity above 3000ppm, all other pools can begin using Element Mineral salt blend immediately.

If salinity is above 3000ppm, please use Activate first: Activate will condition the water for use with Elements. Additional Element mineral salt does not need to be added, use Element Activate only.

Qty Of Activate Bags required at 'Conversion' on an existing pool (use if salinity level is over 3000ppm)										
Pool Size	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
Over 3000ppm	2	4	5	7	9	11	13	14	16	18
Over 4000ppm	1	3	4	5	6	8	9	10	11	13

If salinity is below 3000ppm or if the pool is currently using manually dosed chlorine such as liquid or granular you can start using Element mineral salts immediately.

Qty of Elements required on a new pool or low salinity existing pool (use if salinity is below 3000ppm)										
Salinity level	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
0 ppm	5	9	14	19	24	28	33	38	42	47
500 ppm	4	8	12	16	21	25	29	33	37	41
1000 ppm	4	7	11	14	18	21	25	28	32	35
1500 ppm	3	6	9	12	15	18	21	24	26	29
2000 ppm	2	5	7	9	12	14	16	19	21	24
2500 ppm	2	4	5	7	9	11	12	14	16	18

Please note that all recommendations and dosages are based on a chlorinator working at the common standard salinity level of 4000ppm. **Please refer to specifications found in your chlorinator instruction manual.**

ZODIAC®