



Check₂O_® POOL & SPA

TEST STRIPS

Test strips for the indication of various parameters for the maintenance of Pools & Spas



Monitoring Parameters

A number of parameters must be monitored in swimming pools and spas to ensure they are kept both hygienic and fit for human use.

Cyanuric Acid

Cyanuric acid is added to swimming pools and spas to stabilise the added free chlorine. This is especially critical for outdoor swimming pools or hot tubs as UV rays from sunlight can break down any free chlorine rendering it inactive. Cyanuric acid combines with the free chlorine and slowly releases it back into the water over a period of time, minimising the amount that is lost to UV degradation. Recommended levels of cyanuric acid are 100ppm.

Alkalinity

Total alkalinity refers to a number of chemicals that are present in swimming pools which are able to primarily resist any sudden changes in pH. These chemicals are usually in the form of carbonates, which is why alkalinity is sometimes referred to as carbonate hardness. The total alkalinity or carbonate hardness of a swimming pool should be kept between 80 - 120 ppm. Low levels of alkalinity can lead to big swings in pH whereas levels of alkalinity that are too high will consequentially cause the pH to be high also.

ρН

The pH of a swimming pool or spa should be kept between 7.2 and 7.6. pH levels outside this range can have detrimental effects on both anybody who uses it as well as the pool structure itself. A pH of 8 and above lead to skin rashes as well as cloudy water. A pH of 7 and below will again lead to cloudy water as well as damaging any tiling, grout work or plastic components.





the water filters.



LAUNCH YOUR OWN BRAND

PRIVATE LABEL MANUFACTURING



OEM ONE STOP SERVICE!

- ✓ ANY COMBINATION OF TEST PARAMETERS
 - ✓ CUSTOMISABLE DETECTION RANGE
 - ✓ FLEXIBLE PACKAGING OPTIONS
 - ✓ LOW QUANTITY START-UP
 - ✓ BESPOKE END TO END SERVICE
 - ✓ IN-HOUSE R&D TEAM

JOHNSON ANALYTICA



Why? Check_O Check_O Test Strips Resul only 10 also nc further sam

Results are obtained in only 10 seconds. There is also no need to add any further chemicals to the sample before testing. Desiccated Lid Check₂O.

Each pack contains desiccant within the lid. This protects the strips from any residual humidity that may be encountered during storage.

POOL & SPA

TEST STRIPS

3 year

shelf life

When stored unopened and under the correct conditions, the strips can be used up to 3 years from manufacture.

All chemistries are contained within the test pad and can be used straight out of the pack.

Nontoxic

Easy to

use

1 Test = Multiple Results Aluminium Tube The aluminium tube primarily ensures that optimal storage conditions are maintained. Once all the strips are used, the tube can be easily and widely recycled.

meaning a single pack of 50 strips can provide up to 300 individual

Each test strip provides

results for up to 6 different parameters,

test results.

www.check2o.com







Check2 O 6 in 1 50 strips Ref: 300.001 Alkalinity 0 - 40 - 80 - 120 - 180 - 240 ppm CO₃²⁻ pH 6.4 - 6.8 - 7.2 - 7.5 - 7.8 - 8.4 pH Cyanuric Acid 0 - 30 - 50 - 100 - 150 - 300 ppm CA Free Chlorine 0 - 1 - 2 - 3 - 5 - 10 ppm OCI Total Chlorine 0 - 1(2) - 2(4) - 3(6) - 5(10) - 10(20) ppm Total Cl₂ (Total Br₂)

Check₂O 6 in 1 test strips allow for full control of all aspects of swimming pool maintenance on a single test strip.

CHECK20 5 II	11 50 Strips Ref. 501.001		
Alkalinity	0 - 40 - 80 - 120 - 180 - 240 ppm CO ₃ ²⁻		
рН			
Cyanuric Acid			
Free Chlorine			
Total Hardness	0 - 100 - 250 - 500 - 1000 ppm as CaCO3		

Check₂O 5 in 1 test strips are ideal for when total chlorine measurement is not required, for example when using peroxide or MPS as alternative oxidisers.



 Check2O 4 in 1
 50 strips
 Ref: 302.001

 Alkalinity
 0 - 40 - 80 - 120 - 180 - 240 ppm CO₃²⁻

 pH
 6.4 - 6.8 - 7.2 - 7.5 - 7.8 - 8.4 pH

 Cyanuric Acid
 0 - 30-50 - 100 - 150 - 300 ppm CA

Check₂O 4 in 1 test strips are ideal for when total chlorine and water hardness measurements are not required, for example when water softeners are purposely built into the swimming pool mechanics.

The Check₂O Pool & Spa Range

- Multiple parameters
- Multiple configurations
 - Your choice



Check ₂ O 3 in 1	50 strips	Ref: 303.001	
Alkalinity	0 - 40 - 80 - 120 - 180 - 240 ppm CO ₃ ²⁻		
рН	6.4 - 6.8 - 7.2 - 7.5 - 7.8 - 8.4 pH		
Esco Chlosino	0 - 1 - 2 - 3 - 5 - 10 00m OCI		

Check₂O 3 in 1 test strips allow for measurement of only the most important parameters required in swimming pool maintenance.

Single Parameter Test Strip Range

Free Chlorine

50 strips

Swimming pools are disinfected with chlorine in the form of either hypochlorite or di/trichloroisocyanurate. This keeps the water free from microorganisms. The optimum chlorine levels are dependant on which material has been used. If hypochlorite is used, a level of 3ppm should not be exceeded, whereas with chloroisocyanurates a level of 5ppm should not be exceeded. The pH of the swimming pool is also an important factor to consider when dosing any pool. The higher the pH, the less effective the chlorine will be for disinfection purposes. The ideal pH for free chlorine disinfection is between pH 7.0 and pH 7.4.

Measuring Range



MPS (Monopersulfate) 50 strips

Monopersulfate, which is more commonly known under its trade name Oxone, is a powerful oxidizer used to sanitise swimming pools and reduce build up of organic contaminants. Whilst Oxone cannot completely replace the need for a chlorine-based disinfectant, it can dramatically reduce the overall consumption as well as reduce the buildup of chloramines and the odour associated with them.



Measuring Range

0 - 0.5 - 1 - 3 - 5 - 10 - 20 ppm MPS



Total Chlorine 50 strips Ref: 305.001

Total chlorine or combined chlorine refers to the amount of free chlorine that has been used up. It is important to note that this chlorine remains in the solution but in an inactive form. High levels of combined chlorine usually is accompanied by a strong odour. Total chlorine levels should always be maintained as low as possible, ideally no more than 1ppm.



Measuring Range

0 - 1 - 2 - 3 - 5 - 10 ppm Total Cl.

Copper 50 strips Ref: 308.001

Whilst the majority of swimming pools are disinfected using chlorine, copper is a relatively new way of being able to achieve the same level of disinfection. Copper based disinfectants are extremely effective at killing microorganisms including resistant forms of black algae. These disinfectants are also much kinder to human skin than chlorine so present an excellent alternative.



Measuring Range

0 - 04 - 07 - 15 - 30 nnm Cu²⁴

Total Bromine 50 strips Ref: 306.001

Bromine is used as an alternative to chlorine disinfection. In a similar way to chlorine, it is not actually bromine that is present in the swimming pool, but hydrobromous acid which can be released by certain chemical compounds. Bromine has a number of advantages over chlorine, most notably it is viewed as being less harsh to human eyes and skin. However, in terms of disinfecting power bromine is less powerful than chlorine.



Measuring Range

0 - 2 - 4 - 6 - 10 - 20 ppm Total Br

Peroxide

50 strip

Ref-30900

In a similar way to MPS, hydrogen peroxide is a powerful oxidizer that can be used to reduce the overall chlorine consumption of a swimming pool as well as reduce the buildup of byproducts. Hydrogen peroxide is activated by sunlight and without the need for additional materials, making it a good chemical for use in outdoor swimming pools. However, when using hydrogen peroxide, levels must be checked regularly as bright sunlight and high temperatures can lead to a rapid breakdown of the added hydrogen peroxide.

Measuring Range

0 - 1 - 3 - 10 - 30 - 100 ppm H₂O₂





Biguanide

50 strips

Ref: 310.001

Biguanides disinfectants represent a completely halogen free method for swimming pool disinfection. Where the performance of chlorine disinfectants can be affected by the pH of the water, Biguanides work independent of pH, light and temperature and are usually used in conjunction with hydrogen peroxide. The main drawback for the use of Biguanides are that they tend to produce insoluble by products, which means a more frequent cleaning routine must be maintained.





Total Hardness 50 strips

Total hardness is often referred to as calcium hardness. Hardness can vary across different areas as it is solely dependent on what water is used to fill the swimming pool or spa. The ideal level of calcium hardness in a swimming pool is between 80 - 200ppm. Anything above this level can lead to increased pH levels as well as limescale build up on the water filters.

Measuring Range



Biguanide Shock 50 strips

Ref: 311.001

Swimming pools can be shock treated using Biguanide disinfectants in the same way as chlorine. This is generally used when a large amount of cleaning power is needed in a short space of time e.g., when pools have been left without a proper cleaning routine.



Measuring Range

0 - 40 - 80 - 160 - 240 - 360 ppm

The concentration of chloride ions in swimming pools is a good way of monitoring the quality of the water. High levels of chloride ions can lead to interferences with the disinfection capacity of free chlorine, as well as the production of toxic by products through reactions with human organic matter e.g. urea.

Measuring Range

0 - 500 - 1000 - 1500 - 2000 - 3000 ppm Cl



Cyanuric Acid

50 strips

Ref: 312.001

Cyanuric acid is added to swimming pools and spas to stabilise the added free chlorine. This is especially critical for outdoor swimming pools or hot tubs as UV rays from sunlight can break down any free chlorine rendering it inactive. Cyanuric acid combines with the free chlorine and slowly releases it back into the water over a period of time, minimising the amount that is lost to UV degradation. Recommended levels of cyanuric acid are 100ppm.



Measuring Range

0 - 30-50 - 100 - 150 - 300 ppm CA

Phosphate

50 strips

Ref: 316.001

Phosphates are a natural product of the breakdown of plant matter. If phosphates are left to accumulate unchecked then a process of eutrophication can occur. This is where the water becomes over saturated with nutrients, in particular nitrogen and phosphorus. This excess of phosphorus containing materials stimulate the excess growth of algae and can lead to large algal blooms forming. These algal blooms can turn the water green but most importantly are toxic to humans if left to accumulate.



Measuring Range

0 - 3 - 10 - 25 - 50 - 100 - 250 - 500 nnm PO 3

Alkalinity

50 strips

Ref: 313.001

Total alkalinity refers to a number of chemicals that are present in swimming pools which are able to primarily resist any sudden changes in pH. These chemicals are usually in the form of carbonates, which is why alkalinity is sometimes referred to as carbonate hardness. The total alkalinity or carbonate hardness of a swimming pool should be kept between 80 - 120 ppm. Low levels of alkalinity can lead to big swings in pH whereas levels of alkalinity that are too high will consequentially cause the pH to be high also.



Measuring Range

0 - 40 - 80 - 120 - 180 - 240 ppm CO₂2-

Iron

50 strips

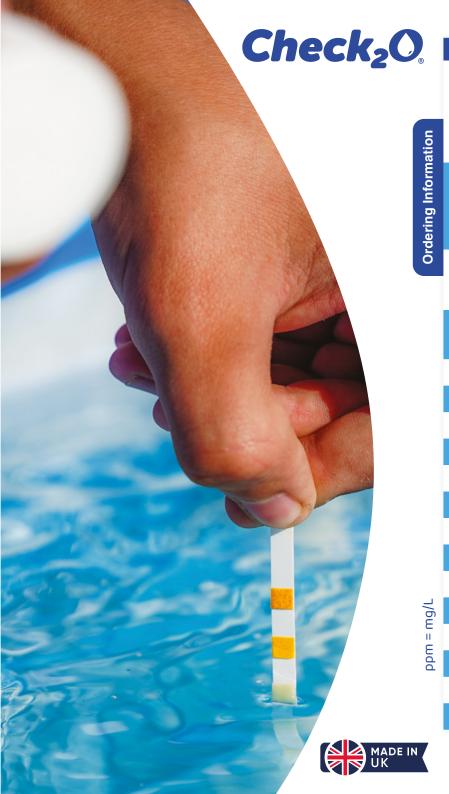
Ref: 317.001

Iron may be present in swimming pools through the slow breakdown of any metallic objects that are left in the pool for a prolonged period of time. This iron can accumulate as local deposits or even discolour the surface of the pool.



Measuring Range

0 - 0.3 - 0.6 - 0.9 - 1.2 - 1.5 - 3.0 - 5.0 ppm Fe²⁺



Product	Measuring Range	Pack Size	REF	Shelf Life
Check ₂ O Pool & Spa Test Strips 6 in 1	0 - 40 - 80 - 120 - 180 - 240 ppm CO ₃ ²⁻ 6.4 - 6.8 - 7.2 - 7.5 - 7.8 - 8.4 pH 0 - 30-50 - 100 - 150 - 300 ppm CA 0 - 1 - 2 - 3 - 5 - 10 ppm OCI ⁻ 0 - 1(2) - 2(4) - 3(6) - 5(10) - 10(20) ppm Total Cl ₂ (Total Br ₂) 0 - 100 - 250 - 500 - 1000 ppm as CaCO ₃	50 strips	300.001	3 years
Check ₂ O Pool & Spa Test Strips 5 in 1	0 - 40 - 80 - 120 - 180 - 240 ppm CO ₃ ²⁻ 6.4 - 6.8 - 7.2 - 7.5 - 7.8 - 8.4 pH 0 - 1 - 2 - 3 - 5 - 10 ppm OCI ⁻ 0 - 1(2) - 2(4) - 3(6) - 5(10) - 10(20) ppm Total Cl ₂ (Total Br ₂) 0 - 100 - 250 - 500 - 1000 ppm as CaCO ₃	50 strips	301.001	3 years
Check ₂ O Pool & Spa Test Strips 4 in 1	0 - 40 - 80 - 120 - 180 - 240 ppm CO ₃ ²⁻ 6.4 - 6.8 - 7.2 - 7.5 - 7.8 - 8.4 pH 0 - 1 - 2 - 3 - 5 - 10 ppm OCI ⁻ 0 - 100 - 250 - 500 - 1000 ppm as CaCO ₃	50 strips	302.001	3 years
Check ₂ O Pool & Spa Test Strips 3 in 1	0 - 40 - 80 - 120 - 180 - 240 ppm CO ₃ ²⁻ 6.4 - 6.8 - 7.2 - 7.5 - 7.8 - 8.4 pH 0 - 1 - 2 - 3 - 5 - 10 ppm OCI ⁻	50 strips	303.001	3 years
Check ₂ O Free Chlorine	0 - 1 - 2 - 3 - 5 - 10 ppm OCI ⁻	50 strips	304.001	3 years
Check ₂ O Total Chlorine	0 - 1 - 2 - 3 - 5 - 10 ppm Total Cl ₂	50 strips	305.001	3 years
Check ₂ O Total Bromine	0 - 2 - 4 - 6 - 10 - 20 ppm Total Br ₂	50 strips	306.001	3 years
Check ₂ O MPS (Monopersulfate)	0 - 0.5 - 1 - 3 - 5 - 10 - 20 ppm MPS	50 strips	307.001	3 years
Check ₂ O Copper	0 - 0.4 - 0.7 - 1.5 - 3.0 ppm Cu ²⁺	50 strips	308.001	3 years
Check ₂ O Peroxide	0 - 1 - 3 - 10 - 30 - 100 ppm H ₂ O ₂	50 strips	309.001	3 years
Check ₂ O Biguanide	0 - 15 - 30 - 50 - 80 ppm	50 strips	310.001	3 years
Check ₂ O Biguanide Shock	0 - 40 - 80 -160 - 240 - 360 ppm	50 strips	311.001	3 years
Check ₂ O Cyanuric Acid	0 - 30-50 - 100 - 150 - 300 ppm CA	50 strips	312.001	3 years
Check ₂ O Alkalinity	0 - 40 - 80 - 120 - 180 - 240 ppm CO ₃ ²⁻	50 strips	313.001	3 years
Check ₂ O Total Hardness	0 - 100 - 250 - 500 - 1000 ppm as CaCO ₃	50 strips	314.001	3 years
Check ₂ O Salt	0 - 500 - 1000 - 1500 - 2000 - 3000 ppm Cl	50 strips	315.001	3 years
Check ₂ O Phosphate	0 - 3 - 10 - 25 - 50 - 100 - 250 - 500 ppm PO ₄ 3-	50 strips	316.001	3 years
Check ₂ O Iron	0 - 0.3 - 0.6 - 0.9 - 1.2 - 1.5 - 3.0 - 5.0 ppm Fe ²⁺	50 strips	317.001	3 years