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Rapid Tests



Water Treatment

pH value

The pH value of pool & spa water should generally be between the slightly acidic value of 6.5 and the slightly basic value of 7.6. Due to the use of various water treatment chemicals as well as ambient environmental effects, pool owners have to determine the pH of the water and correct the value as necessary.

Disinfection

Nowadays, pool owners can choose from a range of modern water treatment agents that are often used in combination.

These water treatment chemicals are only effective within a limited pH range. Therefore in addition to checking the concentration of the water treatment chemicals, the owner/operator should also monitor the pH value of pool water and adjust it if necessary.



Rapid Tests

Three-Chamber Tester

The Three-Chamber Tester is a competitively priced unit for the determination of disinfectants and the pH value.

Pooltester

The Pooltester is designed for the simultaneous determination of the most popular water treatment agents and the pH value.

Multipooltester

Additionally the Multipooltester allows the determination of cyanuric acid, total alkalinity and calcium hardness.



Highlights

- Easy to use
- Futuristic design
- RAPIDfast dissolving tablets
- Highest accuracy



Three-Chamber-Tester

Item	Code
Chlorine-Bromine-pH LR, in mini case¹⁾ Bromine 0,2-6,8 mg/l Chlorine 0,1-3,0 mg/l / pH-Wert 6,8 – 8,2	15 77 00
Chlorine-Bromine-pH LR, in blister²⁾ Bromine 0,2-6,8 mg/l Chlorine 0,1-3,0 mg/l / pH-Wert 6,8-8,2	15 75 20
Chlorine-Bromine-pH HR, in blister²⁾ Bromine 0,2-6,8 mg/l Chlorine 0,5-6,0 mg/l / pH-Wert 6,8-8,2	15 80 10
Active Oxygen-pH, in blister²⁾ Aktivsauerstoff 0 -10 mg/l / pH-Wert 6,8-8,2	15 76 10
Biguanide (PHMB)-pH, in blister²⁾ Biguanide (PHMB) 10-100 mg/l pH-Wert 6,8-8,2	15 61 50
4 in 1, in plastic case Chlorine LR 0,1-3,0 mg/l / pH value 6,8-8,2 Cyanuric acid 20-200 mg/l Alkalinity-M 50-300 mg/l	15 17 00
Phosphate Test Kit³⁾ 0-1000 ppb (0-1mg/l P ₀₄)	15 78 00

¹⁾ Packunit 10 pc
²⁾ Packunit 6 pc
³⁾ Packunit 24 pc

Delivery content

- Three-Chamber-Tester in a bubble pack or mini case
- Instruction manual

Pooltester

Item	Code
Chlorine-pH LR⁴⁾ Chlorine 0,1–3,0 mg/l / pH value 6,8–8,2	15 16 00
Chlorine-pH HR⁴⁾ Chlorine 0,5–6,0 mg/l / pH value 6,8–8,2	15 16 01
Bromine-pH⁴⁾ Bromine 1,0–8,0 mg/l / pH value 6,8–8,2	15 16 04
Active Oxygen-pH⁴⁾ O ₂ 0–10 mg/l / pH value 6,8–8,2	15 16 05
Copper LR/HR-pH⁴⁾ Copper LR 0,1–1,0 mg/l & HR 0,5–5,0 mg/l pH value 6,8–8,2	15 51 90
Active Oxygen-Copper-pH⁴⁾ O ₂ 0–10 mg/l / Copper 0,1–1,0 mg/l pH value 6,8–8,2	15 52 35
Biguanide (PHMB)-Hydrogen Peroxide (H₂O₂)-pH⁴⁾ PHMB 10–100 mg/l / H ₂ O ₂ 5–50 mg/l pH value 6,8–8,2	15 61 00

⁴⁾ Packunit 6 pc

Delivery content

- Pooltester in a sturdy plastic box
- Tablet reagents for 20 tests
- Instruction manual

Multi Pooltester

Item	Code
5 in 1 Multi-Pooltester⁵⁾ Chlorine 0,1 – 3,0 mg/l / pH value 6,8 – 8,2 Cyanuric acid 20 - 200 mg/l Alkalinity-M 20 - 800 mg/l Calcium hardness 20 – 800 mg/l	15 19 00

⁵⁾ Packunit 5 pc

Delivery content

- 5 in 1 Multi Pooltester
- Pooltester Chlorine - pH LR in a robust plastic case
- Cyanuric acid tube
- Dilution / shakertube, 100 ml
- Dilution / shakertube, 30 ml
- Cleaning brush
- Stirring rod
- 20 tablet reagent each DPD No. 1 Rapid, DPD No. 3 Rapid, Phenol Red Rapid
- 10 tablet reagent each CyA-Test, Alk-Test, CAL-Test
- Instruction manual
- Statements (phrases-Hand P)

Refill Packs

Item	Code
Chlorine/ pH* 30 DPD No.1 / RAPID-tablets and 30 PHENOLRED/ RAPID-tablets	51 58 84
Bromine/ pH* 30 DPD No.1 / RAPID-tablets and 30 PHENOLRED/ RAPID-tablets	51 58 68
Active Oxygen - pH* 30 DPD No.4 / RAPID-tablets and 30 PHENOLRED/ RAPID-tablets	51 59 34
Active Oxygen - Copper- pH* 20 DPD No.4 / RAPID-tablets 20 COPPER No.1-tablets and 20 PHENOLRED/ RAPID-tablets	51 58 65
PHMB/H₂O₂ - pH 20 PHMB-, 20 H ₂ O ₂ -, 20 ACIDIFYING PT-and 20 PHENOLRED/ RAPID-tablets	51 58 70
PHMB- pH* 30 PHMB-tablets and 30 PHENOLRED/ RAPID-tablets	51 61 55
Copper - pH* 30 COPPER No.1-tablets and 30 PHENOLRED/ RAPID-tablets	51 57 78
Combi pack for Three-Chamber-Tester 4 in 1 20 DPD No.1/ RAPID-, 20 PHENOLRED/ RAPID-, 20 CyA-TEST- 20 ALK LR-Tabletten	51 59 35
Combi pack for Multipooltester 5 in 1 20 DPD No.1/ RAPID-, 20 DPD No.3/ RAPID-, 20 PHENOLRED/ RAPID-, 20 CyA-TEST- 10 ALK TEST- 10 CAL-TEST-tablets	51 59 80

* Each pack contains 12 units

Reagents

Item	Quantity	Code
Acidifying GP	100 pc. 250 pc.	51 54 80BT 51 54 81BT
Acidifying PT	100 pc. 250 pc.	51 54 90 51 54 91
ALK LR	100 pc.	51 60 40BT
ALK TEST	100 pc.	51 55 70BT
CAL TEST	100 pc.	51 55 80BT
Copper No.1 ★	100 pc. 250 pc.	51 35 50BT 51 35 51BT
Cyanuric Acid CyA-TEST	100 pc. 250 pc.	51 13 70BT 51 13 71BT
DPD No.1/RAPID ★	100 pc. 250 pc. 500 pc.	51 13 10BT 51 13 11BT 51 13 12BT

Item	Quantity	Code
DPD No.3/RAPID ★	100 pc. 250 pc. 500 pc.	51 12 90BT 51 12 91BT 51 12 92BT
DPD No.4/RAPID ★	100 pc. 250 pc. 500 pc.	51 15 70BT 51 15 71BT 51 15 72BT
Hydrogenperoxide HR	100 pc. 250 pc.	51 59 40BT 51 59 41BT
PHENOLRED/RAPID (pH)	100 pc. 250 pc. 500 pc.	51 17 90BT 51 17 91BT 51 17 92BT
PHMB(Biguanide)	100 pc. 250 pc.	51 58 90BT 51 58 91BT

★ also suitable for seawater



Highlights

- Lovibond®-RAPID tablets DPD and PHENOL RED will dissolve quickly, have a guaranteed 10 year shelf-life and are provided in green-printed foil blister.
- Material Safety Data Sheets: www.lovibond.com



MINIKIT



Photo: Elsebad, Schwerte, www.elsebad.de

Analysis	Type	Range	Methods				Code
			Tablet Count	Speed Test	Yes/No Test	Turbidity	
Alkalinity, Total-M	AF413	10- 500 mg/l CaCO ₃ ≅ 0.2 - 10 mmol/l	■				41 41 30
Alkalinity, Total-M	AF444	20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l		■			41 44 40
Alkalinity-P	AF414	20- 500 mg/l CaCO ₃ ≅ 0.2 - 5 mmol/l	■				41 41 40
Calcium Hardness	AF446	20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l		■			41 44 60
Calcium Hardness	AF416	10 - 500 mg/l CaCO ₃ ≅ 0.1 - 5 mmol/l	■				41 41 60
Chloride ★	AF418	5- 5000 mg/l Cl	■				41 41 80
Cyanuric Acid	AF422	20- 200 mg/l Cyanuric Acid				■	41 42 20
QAC (Quaternary Ammonium Comp.)	AF417	0 - 500 mg/l active QAC Limit 200 mg/l (Yes/No)	■		■		41 41 70
Sulphate ★	AF431	40 - 200 mg/l SO ₄ (40 - 4000 mg/l by dilution)				■	41 43 10
Total Hardness	AF424	5 - 500 mg/l CaCO ₃ ≅ 0.05 - 5 mmol/l		■			41 42 40
Total Hardness	AF445	20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l	■				41 44 50

★ also suitable for seawater



Photo: Eisebad, Schwerte, www.eisebad.de

The Methods

The Minikits are developed for fast testing, mainly based on titrimetric methods

Tablet count method

A specific number of tablets is added to a known volume of sample until a chemically induced colour change takes place. The number of tablets used is applied to a simple formula to calculate the test result. The measuring range may be expanded by varying the sample volume.

Speed test

The speed test is based on reverse titration. After adding a reagent tablet to a calibrated test tube, the water sample is added slowly until the colour of the solution changes (e.g. from red to blue). The user can then obtain the result from the liquid level.

Yes/No test

A Yes/No test tells the user whether a specific ingredient is present in the water and/or if its concentration is higher or lower than a defined level.

Turbidity method

A two-section calibrated test tube is filled with the water sample and a reagent tablet added. The reagent creates a level of turbidity that is proportional to the concentration of the parameter being measured. The inner tube, which has a black dot on its base, is lowered until the dot is obscured by the turbidity. The result is read off from the water level in the inner tube.

Tablet Reagents	Code	Quantity
ALKALINITY-M	51 53 21 BT	250
ALK-TEST	51 55 70 BT	100
ALKALINITY-P	51 51 01	250
CAL-TEST	51 55 80 BT	100
CALCIUM HARDNESS	51 51 90	100
CHLORIDE	51 51 31	250
CyA-TEST	51 13 70 BT	100
QAC-Test	51 54 10 51 54 11	100 250
SULFATE	51 54 51 BT	250
TOTAL HARDNESS	51 51 61 BT	250
T HARDNESS-TEST	51 55 90 BT	100

Highlights

- Easy operation
- Exact reagent dosing
- Measurement accuracy
- Tablet reagents with a guaranteed shelf life of 5 years

Delivery content

- Kit in a plastic box
- Tablet reagents for an average of 30 tests
- Sample container
- Required accessories
- Instruction manual