

MINIKIT



Photo: Elsebad, Schwerte, www.elsebad.de

Analysis	Type	Range	Methods				Code
			Tablet Count	Speed Test	Yes/No Test	Turbidity	
Alkalinity, Total-M	AF 413	10 - 500 mg/l CaCO ₃ ≅ 0.2 - 10 mmol/l	■				41 41 30
Alkalinity, Total-M	AF 444	20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l		■			41 44 40
Alkalinity-P	AF 414	20 - 500 mg/l CaCO ₃ ≅ 0.2 - 5 mmol/l	■				41 41 40
Calcium Hardness	AF 446	20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l		■			41 44 60
Calcium Hardness	AF 416	10 - 500 mg/l CaCO ₃ ≅ 0.1 - 5 mmol/l	■				41 41 60
Chloride ★	AF 418	5 - 5000 mg/l Cl	■				41 41 80
Cyanuric Acid	AF 422	20 - 200 mg/l Cyanuric Acid				■	41 42 20
QAC (Quaternary Ammonium Comp.)	AF 417	0 - 500 mg/l active QAC Limit 200 mg/l (Yes/No)	■		■		41 41 70
Sulphate ★	AF 431	40 - 200 mg/l SO ₄ (40 - 4000 mg/l by dilution)				■	41 43 10
Total Hardness	AF 424	5 - 500 mg/l CaCO ₃ ≅ 0.05 - 5 mmol/l		■			41 42 40
Total Hardness	AF 445	20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l	■				41 44 50

★ also suitable for seawater



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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.

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

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