

MINIKIT

Accurate and easy to handle rapid tests

The methods

The MINIKITS are designed for rapid water testing. Most MINIKITS are based on titrimetric methods.

Tablet count method

In the tablet count method, the liquid titration solution and indicator are replaced by AQUALYTIC® tablet reagents. A specific number of tablets is added to a defined sample volume until a chemically induced colour change takes place. The concentration of the parameter being measured is calculated from the number of tablets required. The measuring range can 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.

| Analysis | Type | Range | Methods | | | | Order code |
|---|--------|--|--------------|------------|-------------|-----------|------------|
| | | | Tablet Count | Speed Test | Yes/No Test | Turbidity | |
| Alkalinity Total | AF 444 | 20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l | | ■ | | | 414440 |
| Alkalinity Caustic/P | AF 415 | 20 - 500 mg/l CaCO ₃ | ■ | | | | 414150 |
| Alkalinity, P | AF 414 | 20 - 500 mg/l CaCO ₃ | ■ | | | | 414140 |
| Alkalinity, Total (M) | AF 413 | 10 - 500 mg/l CaCO ₃ ≅ 0.1 - 5 mmol/l | ■ | | | | 414130 |
| Calcium Hardness | AF 446 | 20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l | | ■ | | | 414460 |
| Calcium Hardness | AF 416 | 10 - 500 mg/l CaCO ₃ ≅ 0.1 - 5 mmol/l | ■ | | | | 414160 |
| Chloride | AF 418 | 5 - 5000 mg/l Cl | ■ | | | | 414180 |
| Cleaning Acid Strength | AF 410 | 0.75-10% acid | ■ | | | | 414100 |
| Cyanuric Acid | AF 422 | 20 - 200 mg/l | | | | ■ | 414220 |
| Hardness Total (very low range) | AF 426 | 1 - 10 mg/l CaCO ₃ ≅ 0.01 - 0.1 mmol/l | ■ | | | | 414260 |
| Hardness Total (low range) | AF 425 | 1 - 50 mg/l CaCO ₃ ≅ 0.01 - 0.5 mmol/l | ■ | | | | 414250 |
| Hardness Total (Yes/No) | AF 423 | Limit 4 mg/l, 8 mg/l or 20 mg/l CaCO ₃ ≅ 0.04 or 0.08 or 0.2 mmol/l | | | ■ | | 414230 |
| Hardness Total | AF 445 | 20 - 800 mg/l CaCO ₃ ≅ 0.4 - 16 mmol/l | | ■ | | | 414450 |
| Hardness Total | AF 424 | 5 - 500 mg/l CaCO ₃ ≅ 0.05 - 5 mmol/l | ■ | | | | 414240 |
| Nitrite | AF 427 | 70 - 1500 mg/l NaNO ₂ | ■ | | | | 414270 |
| Organo-Phosphonate | AF 411 | 1 - 20 mg/l active O-P | ■ | | | | 414110 |
| QAC (Quaternary Ammonium Comp.) | AF 417 | 0 - 500 mg/l active QAC Limit 200 mg/l (Yes/No) | ■ | | ■ | | 414170 |
| Sulphate (low range) | AF 432 | 20 - 200 mg/l Na ₂ SO ₄ | ■ | | | | 414320 |
| Sulphate | AF 431 | 40 - 200 mg/l SO ₄ (40 - 4000 mg/l by dilution) | | | | ■ | 414310 |
| Sulphite (low range) | AF 434 | 2 - 50 mg/l Na ₂ SO ₃ | ■ | | | | 414340 |
| Sulphite (high range) | AF 435 | 20 - 500 mg/l Na ₂ SO ₃ | ■ | | | | 414350 |
| Tannin Index | AF 436 | 2 - 20 units | ■ | | | | 414360 |

*BW: Boiler Water



| Reagent | Order code | Quantity |
|---|------------|----------|
| ALK-TEST | 4515570BT | 100 |
| ALKALINITY-P-Tablets | 4515101BT | 250 |
| ALKALINITY-P (BaCl ₂)-Tablets | 4515110 | 100 |
| ALKALINITY-P-Tablets | 4515101 | 250 |
| TOTAL ALKALINITY-tablets | 4515321 | 250 |
| ALKALINITY-P (BaCl ₂)-Tablets | 4515110 | 100 |
| CAL-TEST | 4515580 | 100 |
| CALCIUM HARDNESS | 4515191BT | 250 |
| CHLORIDE | 4515131 | 250 |
| ACID CONCENTRATION | 505420 | 100 |
| CyA-TEST | 4511370BT | 100 |
| HARDNESS VLR | 4515351BT | 250 |
| HARDNESS LR (BW)* | 4515171BT | 250 |
| HARDNESS YES / NO | 4515361BT | 250 |
| T HARDNESS-TEST | 4515590 | 100 |
| TOTAL HARDNESS | 4515161BT | 250 |
| NITRITE No. 1 | 4515201 | 250 |
| NITRITE No. 2 | 4515211BT | 250 |
| ORGANO-PHOSPHONATE No. 2 | 466351 | 100 ml |
| ORGANO-PHOSPHONATE No. 1 | 4512961BT | 250 |
| QAC-Test | 4515410 | 100 |
| | 4515411 | 250 |
| SULFATE No. 1 | 4515221 | 250 |
| SULFATE No. 2 | 4515231 | 250 |
| SULFATE T | 4515451BT | 250 |
| SULFITE No. 1 | 4515271BT | 250 |
| SULFITE No. 2 HR | 4515281BT | 250 |
| SULFITE No. 2 LR (BW)* | 4515331BT | 250 |
| TANNIN No. 1 | 503500 | 100 |
| TANNIN No. 2 | 503511 | 250 |

Material safety data sheets: www.aqualytic.de