



TESTSET FOR DRINKING- AND IRRIGATION WATER

OPERATING INSTRUCTIONS



Take out test strip after having prepared test solution. Avoid touching test zone. Do not expose test strips to air and light unnecessarily. Reseal container immediately after removing test stick(s). Store them as cool and dry as possible between two periods of testing.



For safety reasons use protective (disposable) gloves. It is also recommended to have some tissues available for cleaning and drying the testing material (tubes, etc). Note: Not part of the standard set.

The use of the testset



Rinse sample container/beaker several times with the water to be tested before sampling.

pH

Take sample in a rinsed container. Dip test stick for 1 second. Compare with colour scale score result (The information is useful for the remaining tests. Each test requires its own pH range.)

Ammonia

Required pH range >7. Rinse test tube. Fill test tube to 5 ml. mark. Add 10 drops of sodium hydroxide to bring the pH well above 7. Stir or shake. Dip test strip for 5 seconds. Compare with colour scale.

Nitrate

Take sample in a rinsed container. Dip test strip for 1 second. Compare with colour scale.

Sulphate

Required pH range 4-8. Dip test strip. Wait for 120 seconds. Compare with colour scale.

Chlorine

Required pH range 6-7. Read original instructions. Rinse test tube. Fill test tube to 5 ml mark. Add 1 spoon Chl - 1 (buffer mixture). Take out test trip. Add 5 drops Chl - 2 . Shake/stirr carefully. Dip test stick immediately for 45 seconds. Compare with colour scale within 10 seconds.

Arsen

Demineralised water is also required for the determination of Arsen (not included in the standard set).

Required pH range 1-7. Fill rinsed measuring tube to the 5ml mark. Dip test strip for 1 second. Wait for 20 seconds. Compare with colour scale.

Fluoride

Fill sample beaker. Add 20 drops of hydrochloric acid solution in order to get pH = 1.

Pierce test disc in the middle. Submerge test disc in water sample. Leave it in water until test disc is completely saturated (approx. 5 min.). Compare diameter of the bleached zone with colour scale.

Electrical conductivity

Remove protective cap. Switch meter ON 1 Dip in sample. Wait until reading is stable. Switch OFF

(Space for a bottle of reference solution is not available. Try to find some solution that can be used as reference. Calibrate regularly)



For more information on Guidelines for drinking water quality, most recent edition see:
www.who.int/water_sanitation_health/dwq/gdwq3/en/index.html

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P.O. Box 4, 6987 ZG Giesbeek,
the Netherlands

T +31 313 88 02 00
F +31 313 88 02 99

E info@eijkelkamp.com
I www.eijkelkamp.com



