visocolor®ECO

Silica

Test kit for performing colorimetric tests on silica in surface water and sewage

Method:

Ammonium molybdate forms with silicates silicomolybdic acid, which is reduced to β -silicomolybdenum blue.

Measurement range:

0.2-3.0 mg/L SiO₂

Contents of test kit (*refill pack):

sufficient for 80 tests

25 mL SiO₂-1*

25 mL SiO₂-2* 25 mL SiO₂-3*

2 screw-plug measuring glasses

1 slide comparator

1 color chart

1 plastic syringe 5 mL

1 instruction for use*

Hazard warning:

Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from **www.mn-net.com/SDS**.

Instructions for use:

a) colorimetric determination with color chart

also refer to the pictogram on the back of the color chart

Pour a 5 mL water sample into each of the measuring glasses using the plastic syringe.

Place a measuring glass on position A in the comparator.

Only add the reagent to measuring glass B.

- Add 5 drops of SiO₂-1, seal the glass and mix. Wait 3 min.
- 3. Add 5 drops of SiO₂-2, seal the glass and mix. Wait 1 min.
- 4. Add 5 drops of SiO₂-3, seal the glass and mix.
- Open the glass after 15 min and place it on position B in the comparator.
- Slide the comparator until the colors match in the inspection hole on top. Check the measurement reading in the recess on the comparator reed. Mid-values can be estimated.
- After use, rinse out both measuring glasses thoroughly and seal them.

b) photometric determination

The reagents are also suitable for **photometric evaluation**. Please refer to the separate instructions for photometric performance.

The method can be applied also for the analysis of sea water.

Disposing of the samples:

Information regarding disposal can be found in the safety data sheet. You can download the SDS from *www.mn-net.com/SDS*.

Interferences:

The following ions will not interfere: ≤ 150 mg/L PO₄³⁻

Conversion table:

mg/L SiO ₂	mg/L Si
0.2	0.1
0.4	0.2
0.6	0.3
1.0	0.5
1.5	0.7
2.0	0.9
2.5	1.2
3.0	1.4

Storage:

Store the test kit in a cool (< 25 °C) and dry place.

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