# visocolor°ECO

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## **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  $\beta\mbox{-silicomolybdenum blue}.$ 

#### Measurement range:

0.2-3.0 mg/L SiO<sub>2</sub>

#### Contents of test kit (\*refill pack):

sufficient for 80 tests

25 mL SiO<sub>2</sub>-1\* 25 mL SiO<sub>2</sub>-2\*

25 mL SiO<sub>2</sub>-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 <a href="https://www.mn-net.com/SDS">www.mn-net.com/SDS</a>.

#### Instructions for use:

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.

- 2. Add 5 drops of SiO<sub>2</sub>-1, seal the glass and mix. Wait 3 min.
- 3. Add 5 drops of SiO<sub>2</sub>-2, seal the glass and mix. Wait 1 min.
- 4. Add 5 drops of SiO<sub>2</sub>-3, seal the glass and mix.
- 5. Open the glass after 15 min and place it on position B in the comparator.6. 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.
   The reagents can be used also for the photometric evaluation with

photometer PF-12/PF-12<sup>Plus</sup>.

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 <a href="https://www.mn-net.com/SDS">www.mn-net.com/SDS</a>.

## Interferences: The following ion

The following ions will not interfere: ≤ 150 mg/L PO<sub>4</sub><sup>3-</sup>

#### Conversion table:

mg/L SiO <sub>2</sub>	mg/L S
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.