## 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  $\beta$ -silicomolybdenum blue.

#### Measurement range:

 $0.2-3.0 \text{ mg/L SiO}_2$ 

#### 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 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.

- 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.
- 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 PO<sub>4</sub><sup>3-</sup>

#### **Conversion table:**

mg/L Si
0.1
0.2
0.3
0.5
0.7
0.9
1.2
1.4

#### Storage:

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