# visocolor® ECO Chloride

### Test kit for performing colorimetric tests on chloride ions in surface water and sewage

#### Method:

Chloride ions react with mercuric thiocyanate to produce undissociated mercuric chloride and to liberate thiocyanate ions. In the presence of ferric salts these thiocyanate ions produce a characteristic orange color.

#### Measurement range:

1-60 mg/L CI

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

sufficient for 90 tests

2 x 20 mL Cl-1\* 24 mL CI-2\*

2 screw-plug measuring glasses

1 slide comparator

1 color chart 1 plastic syringe 5 mL

1 instructions 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.

#### Procedure:

#### 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 one measuring glass on position A in the comparator.

- Only add the reagents to measuring glass B.
- 2. Add 10 drops of CI-1. Seal the glass and mix.
- 3. Add 10 drops of CI-2. Seal the glass and mix.
- 4. Open the glass after 1 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 (see "Disposal") 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 not be applied for the analysis of sea water.

## Measurement up to 300 mg/L chloride:

- 1. Pour a 1 mL water sample and 4 mL of distilled water into each of the measuring glasses.
- Same procedure as described above. Multiply the read-off value by 5 (see "Conversion table").

### Conversion table for measurements up to 300 mg/L chloride:

Read-off value in mg/L Cl <sup>-</sup>	Chloride concentration in mg/L Cl <sup>-</sup> (read-off value x 5)
1	5
2	10
4	20
7	35
12	60
20	100
40	200
60	300

#### Disposal:

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

# Interferences:

Bromide, cyanide, iodide, sulfide, thiocyanate and thiosulfate all interfere since they react in the same way as chloride.

The following ions will not interfere: ≤ 2000 mg/L NO<sub>2</sub><sup>-</sup>; ≤ 20 mg/L F<sup>-</sup>.

For the determination of chloride in concrete, please contact MACHEREY-NAGEL for special working instructions.

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

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