



INSTRUCTIONS

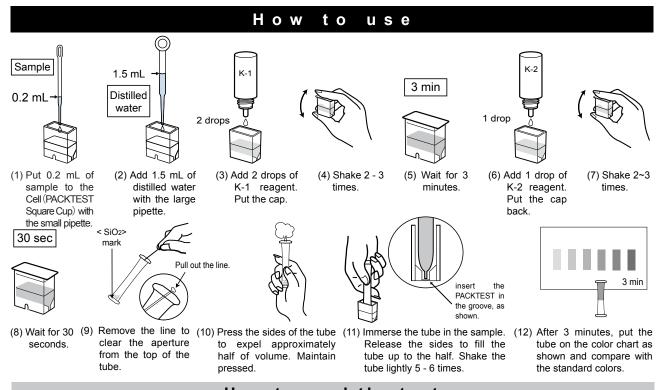


Model WAK-SiO₂



Molybdenum blue Method Main reagent: Ammonium Molybdate

Range: 5 - 200 mg SiO₂/L (ppm)



How to read the test

After the reaction time, compare the color of the tube with the standard colors. The nearest color indicates the measured value of the sample. A color between two standard colors indicates a value between the two standard values.

Care in handling of PACKTEST before and after use

Keep PACKTEST in a cool, dry and dark place.

PACKTEST should be thrown with burnable garbage. Conform to the legislation of waste management. Use a package as soon as possible after opening.

First Aid Measures

K-1 reagent contains diluted sulfuric acid ($pH \le 2$) and K-2 reagent contains oxalic acid ($pH \le 2$). It is harmful and corrosive to eyes and skin.

Eye contact \longrightarrow Immediately rinse eyes with water for at least 15 minutes. Consult a physician.

Ingestion

Immediately rinse mouth. Consult a physician.

Skin contact \longrightarrow Immediately flush skin with water.

In case of doubt, consult a physician.



PACKTEST Silica

Features

The principle of this method is similar to molybdenum blue method. The Silica PACKTEST allows to measure silica concentration easily from sample like industrial waste water.

Cautions

- 1. The Silica PACKTEST can only measure SiO₃² ions.
- 2. The normal pH range is 2 9. If necessary, adjust the pH with diluted sulfuric acid or sodium hydroxide solution.
- 3. Keep sample temperature in the range 15°C 40°C. Lower temperature necessitates longer reaction time.
- 4. Ensure that PACKTEST tube is filled up to the half.
- 5. Partially undissolved reagent will not affect the measurement.
- 6. Read the test under daylight type lamp.
- 7. Carefully wash the small pipette with the samlpe before use .
- 8. Put the line back into the aperture after using to prevent reagent spilt.

Interferences

Standard colors were determined from standard solutions. However, coexisting substances will cause inaccurate results. The list below reports ion concentrations under which ones interferences are insignificant:

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≤ 5000 mg/L : Al³+, B³+, Ba²+, Ca²+, Cl⁻, CN⁻, Fe²+, l⁻, K⁺, Mg²+, Mn²+, Mo⁶+, Na⁺, NH₄+, NO₃⁻, SO₄²-, Zn²+, Anionic surfactant, Phenol, Residual Chlorine, Formaldehyde ≤ 1000 mg/L : As³+, Co²+, Cr⁶+, Cu²+, F⁻, Fe³+, Ni²+, NO₂⁻ ≤ 500 mg/L : PO₄³- ≤ 100 mg/L : Cr³+
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The Silica PACKTEST is suitable for sea water samples.

Oxidative and reducing chemical can interfere with the measurement.