



INSTRUCTIONS

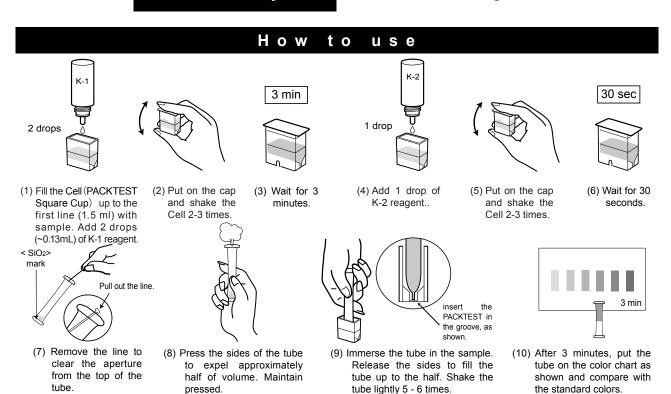
Silica (Low Range)

Model WAK-SiO₂(D)

Molybdenum blue Method Main reagent: Ammonium Molybdate

Range: 0.5 - 20 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.

Skin contact \longrightarrow Immediately flush skin with water.

Ingestion —> Immediately rinse mouth. Consult a physician.

In case of doubt, consult a physician.



PACKTEST Silica (Low Range)

Features

The Silica (Low Range) PACKTEST is based on the molybdenu blue color comparison method. The Silica (Low Range) PACKTEST allows to measure silica concentration easily from sample like industrial wastewater.

Cautions

- 1. The Silica (Low Range) PACKTEST can only measure SiO_3^{2-} 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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\leq 1000 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 \leq 500 mg/L : Ni²+, NO₂⁻ \leq 300 mg/L : As³+ \leq 200 mg/L : Cr⁶+ \leq 100 mg/L : Co²+, Cu²+, F⁻, Fe³+, \leq 50 mg/L : PO₄³- \leq 10 mg/L : Cr³+
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The Silica (Low Range) PACKTEST is not suitable for sea water samples. Oxidative and reducing chemical can interfere with the measurement.