



Water Hardness Test Strips

Instructions for Use

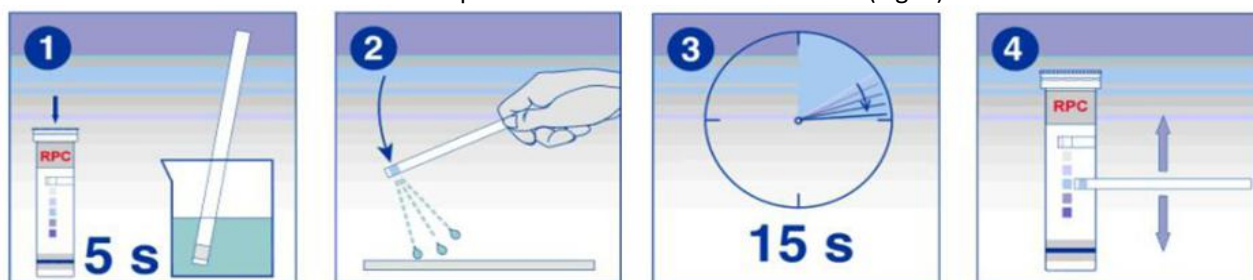
Indications for Use

K100-0102 Water Hardness Test Strips (50 per container), are for the semi-quantitative analysis of low water hardness, after the softening of water that is used (for example) to feed the reverse osmosis system. Water hardness means the content of calcium and magnesium ions in the water, which is expressed in grains per gallon (gpg), parts per million (ppm, mg/l), calcium carbonate CaCO_3 , and German degree of hardness (dGH, °dH). Color gradations from 0.3 to 7 gpg (5-120 ppm), and 0.3 to 6.7 °dH.

Note: The zero color is for reference only. A zero-color reading indicates the hardness of the water is below the sensitivity of the test, 0.3 gpg and 5 ppm of CaCO_3 and 0.3 °dH, to detect hardness.

Test Procedure

1. Dip test strip for 5 seconds into test solution (Fig. 1).
2. *Gently* shake off excess liquid (Fig. 2).
3. At 15 seconds (Fig. 3), compare test pad color with the color scale on container to determine water hardness level in the sample. Estimate results if the color on the test pad falls between two color blocks. (Fig. 4).



Warnings and Cautions

- The color on the indicator pad may continue to develop after the read time. Any color change after 15 seconds will not be accurate and will not reflect the actual hardness value of the water.
- Verify the test strips have not expired. Do not use after the expiry date.
- Remove only as many test strips as required. Keep all unused test strips in the original bottle.
- The lot number and expiration date are printed on the container label. (year/month/day).
- Close container immediately after removing a strip.
- Do not touch the test pad at the end of the strip.
- Do not allow the test strip to come in contact with liquids or work surfaces that may be contaminated with potentially interfering substances.
- Do not leave the test strips in areas exposed to vapors of any kind.
- Keep all unused test strips in the original bottle.
- Do not remove the desiccant from cap/lid.
- The test strip container stopper contains a non-toxic drying agent. If swallowed, drink plenty of water.

Interferences

K100-0102 test strips will not be adversely affected by the presence of up to 50mg/l chlorine or 500 mg/l hydrogen peroxide. The test strips may be used to test the hardness of drinking water pre or post softener, or the feed water to RO systems. Inaccurate results may occur in other solutions.

Chemical Properties of the Test

Determining the water hardness is based on the complexing reaction between calcium and magnesium ions and ethylenediaminetetraacetic acid (EDTA), disodium salt. Note: OSHA classifies test strips as an article not requiring a Safety Data Sheet (SDS).

Quality Control

RPC performs an independent quality control test from manufacturing acceptance on each lot number of test strips for the CertiChek™ Field Verification Program. RPC includes a certificate of conformance with each shipment and references the IFU to follow per

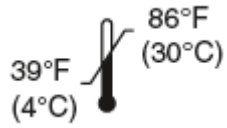


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lot number. Certificates of conformance are also available upon request and/or can be downloaded at www.rpc-rabrenco.com.

Storage and Handling

- **Symbol Legend:**
Temperature Limit



Keep Dry



Keep Away from Sunlight



Test strip per bottle



Recyclable



Immediately close after opening

