

pH KNIFE ELECTRODE BLADE FITTING

First step is to unscrew the black collar from the probe.



The pH probe blade (included) is then free to slide onto the probe.



With the pH probe blade fitted, the black collar is then screwed back onto the probe.



The pH knife probe is then ready for use.



For storage, cleaning or replacement of the knife blade, please reverse the above process.



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pH KNIFE ELECTRODE CARE



Product Care

Product code:
823-514

During shipping, air bubbles can move into the glass bulb. To remove the bubble, shake the electrode as you would a clinical thermometer until the glass bulb is clear with solution.

PREPARATION FOR USE

All sensors are shipped with the measuring end covered with a screw cap vial containing storage solution. Remove the vial from the electrode, rinse thoroughly with de-ionised water and gently dry with nonabrasive tissue. The electrode is then ready for use.

Make sure you do not scratch the membrane as this can cause unreliable readings.

CALIBRATION

Refer to the pH meter manual to ensure correct operation. Always make sure the electrode has stabilised in your first calibration solution before starting the procedure. A 2-point calibration is recommended: Use pH7 and pH4 buffers for acidic samples; pH7 and pH10 buffers for alkaline samples. There are many internet recommendations for correct calibration procedures. Please contact us if in doubt.

Wrong calibration will cause inaccurate readings.

ELECTRODE STORAGE

Store in an up-right position and keep the tip wet.

STORAGE/SOAKING SOLUTIONS

- pH electrodes should be stored in an appropriate storage solution for both overnight and long term storage. **Storage solution of KCl solution, Product code 816-041** (Reference and Double Junction pH electrodes should be stored in the same solution as inside the outer reference chamber).

Keep the probe end soaked at all times. A dried membrane will cause inaccurate readings and drifting.

CARE AND CLEANING

Clean after each use with de-ionised water or a solvent that dissolves your sample. Rinse thoroughly with de-ionised water and gently dry with a nonabrasive wipe. Return to the storage solution.

A COATING OF THE MEMBRANE

- Slow response and non-reproducible measurements are signs that the electrodes have become coated.
- If the glass becomes coated, the response time for measurements will increase (normally 95 % of the final reading should be achieved in less than 10 seconds in pH buffers).
- For general cleaning, rinse with de-ionised water. If this does not restore the electrode, use a pH Electrode Cleaning Solution. **0.1 M HCl solution, Product code 816-040** or an appropriate cleaning solution that dissolves your sample.

Exercise great care when handling chemicals.

COATING AND CLOGGING OF THE JUNCTION

- pH electrodes use a liquid junction for electrical contact to the solution being measured. If the junction becomes clogged or coated, the readings will become erratic. Cleaning with an appropriate cleaning solution periodically will improve the electrodes performance.

FILLING SOLUTIONS

These electrodes do not need filling and do not have a filling hole on the side of the electrode.

PLEASE NOTE

The salts storage solution is prone to capillary action - although salts may have formed on the outside of the probe, there is no harm and no detriment to the probe's performance.