Durafet Electrode Shelf Life and Storage

Description

(The information contained in this Section does not apply to Model 31079250).

Periodic maintenance is required to ensure that the electrode does not dry out after prolonged shelf storage. Stored electrodes should be checked (by removing cap) once per year to ensure that the cotton packing is still wet.

The procedure outlined below should be performed once per year for stored electrodes.

1. Remove the electrode from its storage box, remove vinyl tape and pull the plastic cap from the sensing end.
2. DO NOT ROTATE PLASTIC CAP. (This will loosen reference junction assembly).
3. Remove any excess crystals on sensor area by rinsing with warm tap water.
4. Refill the cap with electrode storage solution (See Section 2.2, *Precautions*).
5. Replace the cap on the electrode.
6. Wrap the joint where the cap edge meets the electrode body with vinyl tape.
7. Place electrode in its storage box.
8. Mark the date on the box.

ATTENTION

Do not store electrode at or below -10°C (+14°F) or above 50°C (122°F)

Durafet Electrode Cleaning

Overview

The frequency of cleaning is dependent on process conditions. Some process materials tend to adhere to the sensor and could interfere with the accuracy or time response of measurements. Note the following information before attempting to clean your electrode.

- Remove the electrode from service and disconnect the cable from the electrode.
- Install electrode connector cap.
- Placing the electrode under flowing warm tap water will normally remove loose or lodged debris.
- Oil deposits can be removed using a household detergent (Joy or Windex) or a laboratory detergent (Micro or Sparkleen).
- The PPS electrode body can be cleaned with almost any cleaning agent.
- Use dilute hydrochloric acid or other dilute acid to clean mineral scaling off the sensor. After cleaning, rinse thoroughly in distilled water. Allow it to soak for an hour in a neutral buffer (i.e. - 6.86 pH buffer, Honeywell Part Number 31103002).
- The sensor area can be wiped gently with a soft wet cotton swab.

The procedure outlined below should be performed if the reference electrode junction is clogged or dried. (The information contained in this Section does not apply to Model 079250).

1. Remove the storage cap from the electrode (if necessary) for the cleaning process.

ATTENTION

For Model 31079231, do not remove the slotted tip.

2. Immerse the end of the electrode for one hour in tap water at approximately 90°C.

If the procedure outlined above does not fully unclog the reference electrode junction, perform the following additional steps.

3. Place the electrode in a beaker of saturated potassium chloride (KCl) solution and heat to boiling.
4. Remove from heat and allow the electrode to soak in this solution until it cools to room temperature.