

3M™ Ethylene Oxide Monitor 3551



The 3M™ 3551 Ethylene Oxide monitor is a simple and effective device that measures time weighted average concentration of ethylene oxide gas. These meet or exceed an accuracy of $\pm 25\%$ at 1 ppm and $\pm 35\%$ at 0.5 ppm. They can be used for either personal or area monitoring and are simple and easy to use and do not require pumps, hoses or batteries.

The airborne concentrations measured can be used as part of a Risk Management process to institute suitable controls, including assisting in determination of the type and service life of respiratory equipment appropriate to the contaminants (according to AS/NZS1715¹). The basic considerations required for sampling are covered in AS 2986.2:2003².

These monitors come in a sealed pull top can, with a shelf life of 18 months – the expiry date is marked on a label on the can. They should be stored in an area free from ethylene oxide at temperatures $< 32^{\circ}\text{C}$. A full description of the lab analysis required with these monitors is available from 3M via the TechAssist Helpline on 1800 024 464.

A simple guide on how to prepare and use the monitors is included below - this information is also included in the box of monitors when purchased.

Preparation and Sampling Instructions.

1. Remove the plastic lid from the top can. Then open the can using the ring pull. The contents should be a short plastic pour spout (straw), the red monitor and a clear plastic elution cap.
2. Before monitoring, record the following information in your data log:
 - monitor serial number
 - sampling date
 - employee or area description
 - ambient temperature and relative humidity
3. Record the date, employee or area ID and sampling start time on the label located on the monitor base (see diagram 1 over page).
4. **DO NOT REMOVE WHITE FILM AND PLASTIC RING FROM THE TOP SECTION.** The white film is a dust cover to prevent dust build up inside the monitor. It does not prevent the ethylene oxide gas from passing through to the adsorbent pad beneath.



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5. The monitor can be used as an area or personal sampler. For personal sampling attach the monitor near employee breathing zone (see diagram 2). When used as an area monitor, hang it somewhere away from walls, corners, tabletops, or other regions where the air movement in the room may be limited.

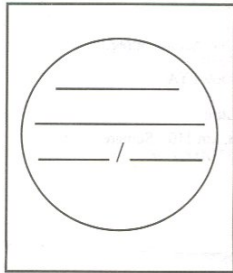


Diagram 1



Diagram 2

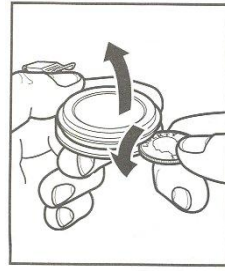


Diagram 3

6. After the sampling period is ended, remove the outer plastic ring and white film from the monitor using a coin or other lever (see diagram 3). Move to Step 7 immediately.

7. Snap the elution cap (with plugs closed) onto monitor body (see diagram 4). Ensure the two port plugs are pushed closed and the cap is snapped onto the monitor base securely. Record the end time on the label on the base. Record in your data log the total time the monitor was exposed. Return the monitor and the pour spout to the can and close with plastic lid provided. The monitor is now ready for shipment to the analytical laboratory.

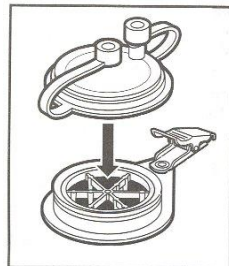


Diagram 4

For any other monitor or respirator related issues, please contact your local 3M OH&S representative or call the 3M TechAssist line on 1800 024 464.

¹ AS/NZS1715-1994 Selection, use and maintenance of respiratory protective devices.

² AS2986.2:2003 Workplace air quality—Sampling and analysis of volatile organic compounds by solvent desorption/gas chromatography.

How to contact us:

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