

10 REASONS

Passive Samplers for Organic Vapors

10 Reasons to Take a Fresh Look

This publication summarizes the advantages of the technology represented in SKC VOC Chek® 575 Series Passive Samplers compared to the 30-year-old technology of 3M Organic Vapor Monitors (OVM).



① Capacity

SKC VOC Chek Samplers contain more than twice the sorbent of 3M OVM Samplers for measurement of high concentration levels of target compounds, even in the presence of interfering compounds.

3M OVM 3500 wafer = ~ 170 mg sorbent vs.

SKC VOC Chek 575-001/575-002 = 350+ mg sorbent

② Sample Time

The greater amount of sorbent in SKC VOC Chek Samplers offers longer sample times. Most compounds in the SKC VOC Chek Sampler list can be sampled for 8 hours or more. There are many compounds that the 3M OVM 3500 Sampler cannot sample for even 8 hours due to capacity and reverse diffusion concerns. SKC VOC Chek Samplers are also suitable for 15-minute STEL sampling and able to detect to 1/10 of the TLV/PEL for most compounds.

③ Cost

SKC VOC Chek Samplers contain more sorbent in a SINGLE layer than 3M DOUBLE-layer OVM Samplers, which eliminates the need for the higher-cost 3M OVM 3520 double-layer sampler. **For users**, SKC VOC Chek Sampler analysis costs less because only a single layer needs to be analyzed. **For labs**, SKC VOC Chek Samplers enhance productivity and save costs through fast, easy one-step sorbent transfer for desorption **without tedious badge disassembly**.

④ Ruggedness and Simplicity

The diffusive barrier in SKC VOC Chek Samplers is constructed of tough nylon and molded into the sampler body; it cannot be damaged during sampling or handling. There are only two parts to SKC VOC Chek Samplers. The 3M OVM Sampler design has an exposed membrane diffusive barrier that is subject to tearing or puncturing. 3M OVM Samplers contain several parts and require assembly and disassembly.

⑤ Choice

SKC VOC Chek Samplers are available with Anasorb® CSC or Anasorb 747 sorbent for collection of polar and non-polar organic vapors. SKC offers specialty samplers for ethylene oxide, styrene, and methanol, as well as, custom samplers with your choice of sorbent. 3M sells samplers for organic vapors, ethylene oxide, and formaldehyde only.

⑥ Scientific Data

SKC VOC Chek Samplers have been tested using NIOSH and other protocols. Scientific research reports (available at www.skcinc.com) can be used to defend data collected with VOC Chek Samplers during an OSHA inspection or other legal challenge. SKC passive sampler testing and research is active and ongoing. 3M provides sampling rates only in its *3M Organic Vapor Monitor Sampling and Analysis Guide*.

⑦ Scientists

SKC chemists, industrial hygienists, and technical representatives are available to provide additional passive sampling rates and exceptional support for users and labs. Simply send an email to skctech@skcinc.com or call your local SKC representative.

For labs: SKC offers its 575 Series laboratory partners special promotions on the SKC website, laboratory analysis guides, technical support from analytical chemists, and private labeling and discounts for quantity purchases. **Contact SKC today at ddietrich@skcinc.com.**

⑧ Reference Materials

SKC offers several guides to help you, including its free "VOC Chek 575 Series Selection Guide" in the SKC Comprehensive Catalog and the online Passive Sampling Guide and compound-specific research reports at www.skcinc.com. A *VOC Chek 575 Series Laboratory Reference Guide* is available to laboratories and includes information on alternative desorbing solvents and other critical parameters tailored to meet the special needs of labs. The *3M Organic Vapor Monitor Sampling and Analysis Guide* is essentially generic operating instructions.

⑨ Packaging

SKC VOC Chek Samplers are packaged in lightweight pouches that fit easily into storage coolers. 3M OVM Samplers are supplied in bulky aluminum cans that can be difficult to store and are more expensive to ship.

⑩ Lab Partners

SKC has developed solid relationships with many accredited lab partners who meet high quality and customer service standards for sale, support, and analysis of SKC VOC Chek 575 Samplers. Choose to purchase VOC Chek Samplers and support from SKC directly or from one of SKC's lab partners (list available at www.skcinc.com).

Visit www.skcinc.com/prod/575-001.asp or contact your SKC representative to learn more!

