

## TECHNICAL INSERT

Item No	555	ChemDisk™ Monitor for	Prepared by	CG
Edition	MARCH 2025	Ethylene Oxide	Approved by	MDR Peralta

The ChemDisk™ Personal Monitor is designed to measure exposure to chemicals in order to demonstrate workplace compliance with Permissible Exposure Limits (PELs) and Short Term Exposure Limits (STELs) defined by the Occupational Safety and Health Act of 1970 and Title 29 Code of Federal Regulations.

This **Technical Insert** contains product specific information on use and storage.

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<b>Sampling Medium:</b>	Activated Carbon, 150 mg, PTFE Binder treated with hydrogen bromide
<b>Analyte Sampled:</b>	Ethylene Oxide
<b>Analytical Method:</b>	Modified OSHA 1010: Desorption in 90/10 toluene/acetonitrile. Ethylene oxide is adsorbed and converted to 2-Bromoethanol; analysis by Gas Chromatography with Electron Capture Detector (GC/ECD)
<b>Recommended Sampling Time:</b>	STEL = 15 min PEL = 8 hours Functional Range: 15 min – 12 hours
<b>Recommended Holding Time:</b>	Monitors must be received by lab <b>within two (2) weeks after sampling.</b>
<b>Sample Capacity:</b>	10 ppm for 8 hour sample (80 ppm-hrs)
<b>Reporting Limit (RL):</b> *AT Labs specific	0.01 ppm for 8 hour sample; 0.4 ppm for 15 min sample (0.089 ppm-hrs)
<b>Sampling Rate(SR):</b>	12.4 mL/min
<b>Interfering Substance(s):</b>	Propylene oxide (creates a bias low)
<b>Effect of Temperature:</b>	Effect on result ≤ 5% within 0 – 50°C (32 - 122°F).
<b>Effect of Humidity:</b>	Functions as claimed within 10 – 80% RH.
<b>Accuracy (MTE):</b>	Meets or exceeds OSHA requirements for accuracy: Maximum Total Error (MTE) ≤ 25% at PEL; ≤ 35% at STEL and action level.
<b>Storage Conditions:</b>	Store at controlled room temperature. Do Not Use after expiration date printed on pouch.
<b>IMPORTANT:</b>	Warranty valid only if <b>Instructions for Use</b> have been followed.
<b>WARNING:</b>	Wash affected area thoroughly if sampling medium is contacted.

For detailed directions, see **Instructions for Use** included in each package of Monitors.

For detailed information about the ChemDisk™ Personal Monitor, refer to *AT Labs IH Sampling Guide* at [www.assaytech.com](http://www.assaytech.com)

**Call TOLL FREE NUMBER 1-800-833-1258 or Email: [custservice@assaytech.com](mailto:custservice@assaytech.com)**