

TECHNICAL INSERT

Item No	593	ChemDisk™ Monitor for	Prepared by	CG
Edition	JUNE 2026	Mercury Vapor	Approved by	JZ

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.

9159-593 06/26

Sampling Medium:	0.5 mg pure gold film coated on a plastic disc.
Analyte Sampled:	Mercury Vapor
Analytical Method:	EPA 7473 Modified: Analysis of mercury by thermal decomposition, amalgamation, and atomic absorption spectrophotometry (AAS)
Recommended Sampling Time:	PEL = 8 hrs or full shift Functional range: 1 – 12 hours
Recommended Holding Time:	Monitors must be received by lab within four (4) weeks after sampling.
Sample Capacity:	13.5 mg/m ³ for an 8-hr sample (108 mg/m ³ -hrs)
Reporting Limit (RL): *AT Labs specific	0.00061 mg/m ³ for 8 hours (0.0049 mg/m ³ -hrs)
Sampling Rate (SR):	17 mL/min
Interfering Substance(s):	Monitor may absorb hydrogen sulfide and chlorine, but these chemicals do not interfere with the analysis. Sulfur and halogen compounds are trapped by the instrument prior to mercury detection.
Effect of Temperature:	Effect on result ≤ 5% within 0 - 50°C (32 - 122°F)
Effect of Humidity:	Functions as claimed within 10 - 80% RH
Accuracy (MTE):	Meets or exceeds OSHA requirements for accuracy: Maximum Total Error (MTE) ≤ 25% at PEL
Storage Conditions:	Store at controlled room temperature. Do Not Use after expiration date printed on pouch. Best stored away from mercury sources.
IMPORTANT:	Warranty valid only if Instructions for Use have been followed.
WARNING:	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

Call TOLL FREE NUMBER 1-800-833-1258 or Email: custservice@assaytech.com