

Nitrous Oxide Dosimeter Badge



PLYMOUTH
MEDICAL

What is a Nitrous Oxide Dosimeter Badge?

Nitrous Oxide Monitors are personal safety monitoring badges that monitor nitrous oxide vapor levels. Nitrous oxide levels should be maintained below 25 ppm in operating rooms and 50 ppm in dental treatment areas. They may be comfortably worn in the employees breathing zone to measure personal exposure or they may also be used for "area" exposure monitoring. Each monitor is manufactured to meet and exceed applicable OSHA and NIOSH Accuracy Requirements at both 8-hour TWA and 15-minute STEL levels.



What is included in the cost of the Nitrous Oxide Dosimeter Badge?

- #1 Nitrous Oxide Badge
- Instructions for Use
- A prepaid mailer to return the monitors to the lab for analysis
- The chemical analysis of the badges
- The analysis report
- Customer support
- A Chain of Custody form is sent with each monitor to provide documented traceability. This form and all results will be retained for a period of 30 years.

Does the analysis report format follow certain guidelines?

The format of the analytical report conforms to ISO 17025 and AIHA-LAP, LLC directives.

How will I receive my analysis report?

The analytical reports are primarily sent by email to expedite service. However, they can also be sent by fax or USPS.

How quickly can I expect to receive my monitoring results?

Most vapor results are available within 1 to 2 days after receipt of the monitors. The prepaid mailers are for use with the USPS. However, if a quicker transport service is needed, a courier, such as UPS or FedEx may be used.



How do I know when I receive my badges up to what point the expiration date is valid?

The badges are sent out with full year expiration. The effective date extends to the last day of the stated month.

If I wear the badge for less than 8 hours, what is the ppm based on?

The ppm is based on the actual time that the badge was exposed for. A caveat is provided on the analysis report that declares if there is no further exposure after the time stated on the badge, this is what the ppm value would be for 8 hours.

How am I able to access my badge results whenever I need them?

All badge results for any vapor at a given facility may be accessed. To initiate the process, a call must be made to the Lab at 800 875-9028 ex 10.

How often should our office test the nitrous oxide exposure?

This is up to the facility manager or risk assessment manager. Some offices quarterly basis and some increase testing if device usage pattern increases over time.

How will I know if my monitoring results are within an acceptable range?

If the analytical result is higher than the OSHA or NIOSH Standard it will be noted in red lettering stating "High Result". The OSHA or NIOSH Standard for the given vapor is located at the upper right hand side above the analysis table and is used as a reference to compare the result to.

What should I do if my monitoring results are not within an acceptable range?

If your monitoring results are not within an acceptable range, we recommend doing a retest. If the results comes back high again, there are several actions your office can take:

- Improve ventilation
- Position fans to blow away from Doctor / Assistant
- Reduce usage (frequency or time)
- Install a scavenging solution (vacuum system)

How can I purchase a Nitrous Oxide Dosimeter Badge?

You can order the Nitrous Oxide Dosimeter Badges through Plymouth Medical. Simply email customerservice@plymouthmedical.com and let us know how many badges you would like to order.