

HEALTH & SAFETY WARNING



FENTANYL EXPOSURE

WHAT THE INDUSTRY ISN'T TELLING YOU

ARE YOU SAFE?

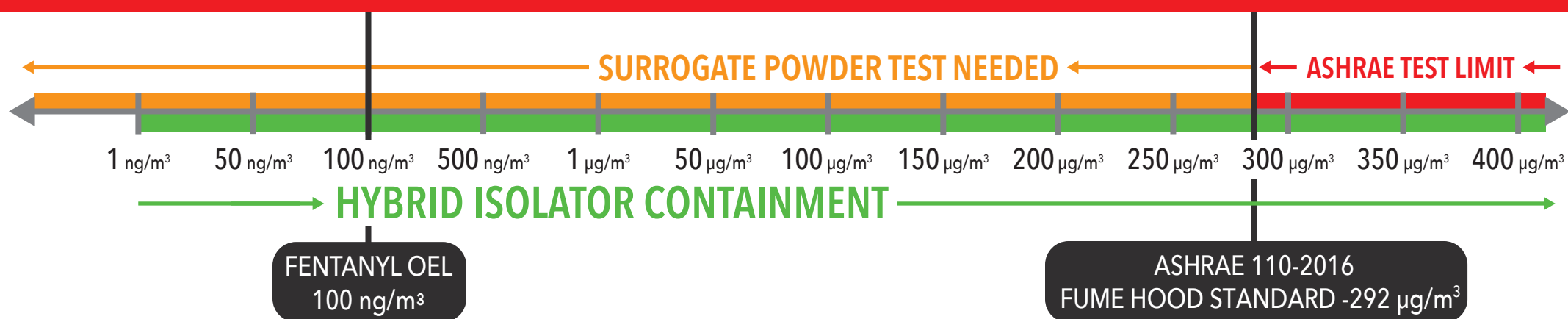
Fentanyl is one of the strongest and most deadly drugs to ever reach the public for illegal drug use. This has translated to the lab safety industry, as technicians all over the world are testing samples of drugs, not knowing what amount of fentanyl is present. This has led to very dangerous lab practices as most facilities are not outfitted for personnel protection of such a dangerous and potent drug.

ASHRAE 110-2016

ASHRAE 110-2016 compliance testing is the standard for most fume hoods and powder containment enclosures. ASHRAE 110-2016 is not enough to ensure safety, due to the limits of the test, thus surrogate powder testing is needed. In ASHRAE 110-2016, the hood will pass at anything below .05 ppm, or 292 $\mu\text{g}/\text{m}^3$. The OEL (Occupational Exposure Limit) for Fentanyl is .1 $\mu\text{g}/\text{m}^3$, much lower than the acceptable pass exposure for ASHRAE 110-2016.

WILL YOUR CONTAINMENT SYSTEM KEEP YOU SAFE?

ASHRAE 110-2016 TESTING IS NOT ENOUGH TO ENSURE SAFETY. SURROGATE POWDER TESTING IS NEEDED.



CONTAINING THE UNKNOWN

First responders and lab personnel are defenseless to the unknown. Having proper personnel protection is crucial to ensuring safe lab practices and avoiding potentially deadly circumstances.

When understanding potential health hazard, many factors must be taken into account. The quantity and the duration of the task are key factors, and as both of those increase, so does the hazard. The only way to contain to the unknown factor is to assume all powder samples are of the highest toxicity.



LETHAL DOSE OF OPIOIDS

- CARFENTANIL 20 μg
- FENTANYL 2,000 μg
- HEROIN 75,000 μg

Whether it's heroin, fentanyl, or even worse, carfentanil, if you are testing an unknown powder source, you have to take proper precautions for personnel protection. The unknown factor of what the powder could be can not be underestimated.

DON'T RISK YOUR LIFE. CONTAIN TO THE UNKNOWN FACTOR.

To ensure that a containment system is capable of containing down to limits below 292 $\mu\text{g}/\text{m}^3$, a more challenging test must be performed. Surrogate Powder Testing is crucial to understanding the containment ability of enclosures. The only way to contain the unknown element is to use a containment system that has proven containment below the highest possible toxicity of the samples.

FLOW SCIENCES HYBRID ISOLATOR

- Surrogate Powder Testing Proven Containment to 1 ng/m^3 (.001 $\mu\text{g}/\text{m}^3$)
- Dual Hepa Filtration
- Removeable Glove Panel for Open or Closed Face Options
- Dual Speed Fan to Automatically Adjust Face Velocity When Glove Panel is Removed or Installed
- Transfer Port for Safe Introduction and Removal of Samples



SINGLE HEPA LAMINAR FLOW POWDER HOOD

DUAL HEPA LAMINAR FLOW POWDER HOOD

CONVERTIBLE HYBRID ISOLATOR

KNOW YOUR RISKS. REDUCE YOUR LIABILITY. CALL THE EXPERTS.