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## Who Are We?

FAST-ACT is a proprietary formulation of safe earth minerals capable of neutralizing, adsorbing, or containing a wide range of chemical threats.

Decontaminate + Contain + Neutralize

No Hazard Identification Required

- Works on Acids, Bases, and Organic and Halogen compounds
- Toxic Industrial Chemicals (TICs) & Toxic Industrial Materials (TIMs)

Minimal Training Required

- All units are ready-to-use, no premixing or preparation
- Easy-to-use

Fast

- Immediately neutralizes, adsorbs or contains on contact

Safe

- Non-toxic, non-corrosive, non-flammable, environmentally friendly

## Pressurized Cylinder

The FAST-ACT® Pressurized Cylinder is a fast-acting, rapid solution for decontamination and adsorption of toxic chemical vapors or liquids in an environment. The FAST-ACT® pressurized cylinder is available in 1 kg, 2kg, and 4kg sizes.

FAST-ACT® can be safely applied where known or unknown chemicals are a potential threat.

### Typical Applications Include:

- Hazmat Teams: Air Space decontamination
- Neutralization of acidic gasses
- Rapid decontamination of gear
- Enclosed spaces knockdown of vapors and/or odors
- Decontamination shelter/tent cleanup

FAST-ACT® Pressurized Cylinder was tested for removal of vapor hazards such as GB (sarin), anhydrous ammonia (UASACHPPM Toxic Industrial Chemical List, Second Hand Smoke Component, considered as a choking agent); chlorine (TOP 25 Hazardous Commodities 1998 List, choking agent); ethylene oxide (USACHPPM Toxic Industrial Chemical List); hydrogen chloride (USACHPPM Toxic Industrial Chemical List, also considered a blood agent); nitrogen dioxide (USACHPPM Toxic Industrial Chemical List) and sulfur dioxide (USACHPPM Toxic Industrial Chemical List).



# Pressurized Cylinder Specifications

Available in 3 different sizes. Weight and Dimensions vary with sizes.

<b>1 Kg</b>	
Part Number:	FA015-1000-00NS
NSN:	4235-01-612-0947
Dimensions:	395 mm x 145 mm x 110 mm
Product Weight	2.7kg (5.9 lbs)

<b>2 Kg</b>	
Part Number:	FA015-2000-00NS
NSN:	4235-01-612-0950
Dimensions:	515 mm x 165 mm x 130 mm
Product Weight	4.6kg (10.1 lbs)

<b>4 Kg</b>	
Part Number:	FA015-4000-00NS
NSN:	4235-01-612-0969
Dimensions:	600 mm x 165 mm x 165 mm
Product Weight	8.8kg (19.4 lbs)



## Tested & Verified By:



## Testing

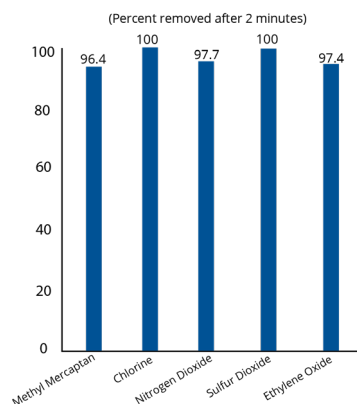
### Battelle Surface Decontamination Testing

The objective of Battelle testing was to determine surface removal ability and reactivity of FAST-ACT<sup>®</sup> by measuring the reduction in chemical warfare agents under ambient conditions. An inert surface (glass) was spiked with CWA, FAST-ACT<sup>®</sup> was applied to the surface and mixed/agitated with the agent. After 90 seconds the powder was removed from the surface, the surface extracted with an organic solvent, and the amount of agent in the extract determined by GC/FID. After 10 minutes for VX and GD and 60 minutes for HD, the powders were extracted and the amount of extracted agent quantified by GC-MS.

### Results

Within 90 seconds FAST-ACT<sup>®</sup> removed over 99.9% of HD and VX and over 99.6% (detection limit) of GD from the surface as indicated in the graph below. Over time the adsorbed agents were destroyed by FAST-ACT<sup>®</sup>.

### Effectiveness of FAST-ACT Towards Vapor Hazards



### Effectiveness of FAST-ACT Towards Liquid Hazards

