

Revolutionary Emergency Shelter Ensures Miners Have Life-Sustaining Air

Safe Haven - Revolutionary and ruggedly constructed, the ChemBio LifeShelter™ provides an impermeable barrier from the life-threatening concentrations of carbon monoxide and other toxic gases that are likely to be present in a mine emergency.



Supplies

Long-term Air Supply -

Engineered to provide a safe haven for up to 35 workers per unit, the patent-pending shelter system provides a life-sustaining supply of air for 96 hours - without the need for external power.

Rapid Deployment - The shelter's compactly-stored, rugged membrane uses air-beam technology for rapid deployment in emergency situations - when time is critical. By removing a safety pin and pressing one button, the LifeShelter automatically deploys in less than 3 minutes.

Rugged & Portable - Designed to tough military standards, the self-contained system is stored in a skid-mounted, heavy gauge steel storage container that can be strategically positioned within the mine (e.g. in a crosscut near the working face).

Standard & Custom Sizing - The ChemBio LifeShelter™ comes in several standard configurations. Custom sizing is available to meet virtually any space requirements.

Air-beam Technology



Inside, the patent-pending air-processing system sustains a breathable air supply by maintaining oxygen levels and scrubbing carbon dioxide from the air.

This revolutionary shelter is designed to save lives in the event of a mine emergency.



Passive Carbon Dioxide



Container-deployed System

The container-deployed system comes complete with air-beam shelter module, air-processing equipment, oxygen, monitors, emergency lighting, heavy-duty repair kit, potable water, food (2400 Calories per day per person), chemical toilet and medical supplies (EMS kit).

Manufactured by:


**ChemBio
SHELTER**
www.ChemBioShelter.com

(304) 683-6909

550 Robert C. Byrd Drive
Sophia, WV 25921 USA
info@ChemBioShelter.com
www.ChemBioShelter.com

Specifications

Key Features

Airtight Shelter

- Capacity for up to 35 people
- Airlock for secure shelter entry

Long-term Air Supply

- 96 hours or more
- No electrical power required

Mobile

- Skid-mounted storage container
- Optional wheeled container
- Easy storage and movement

Rapid Deployment

- Self-inflates in under 3 minutes

Shelter Material

- Rugged, tear & puncture resistant
- Flame retardant

Shelter Construction

- Air-beam technology
- Airlock
- Custom sizes available

Container-deployment System

- Cart height: as low as 24" (with skid)
- Skid mounted or wheeled
- Steel-sided

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Standard Package



Air-processing Equipment

- Operates without electrical power
- Carbon dioxide scrubber
- Oxygen cylinders

Monitors

- Carbon monoxide
- Carbon dioxide
- Oxygen
- Intrinsically safe
- Integral alarms
- Measures internal and external air

Capital Equipment

- Shelter module (see above)
- Air-processing equipment (see above)
- Monitors (see above)
- Heavy duty skid-mounted storage container
- Emergency lighting
- Emergency medical supply kit
- Chemical toilet

Consumables (96-hour Supply)

- Oxygen cylinders
- CO₂ absorbent curtains
- Pre-packaged meals
- Potable water
- Chemical toilet packs