



Xcaper[®] Personal Smoke Mask Kit

Model XSMTKIT



Operations and Instructions

WARNING

THIS MANUAL MUST BE CAREFULLY READ AND FOLLOWED BY ALL PERSONS WHO HAVE, OR WILL HAVE, THE RESPONSIBILITY FOR USING THE XCAPER PERSONAL SMOKE MASK KIT. THIS PRODUCT WILL PERFORM AS DESIGNED ONLY IF USED AND SERVICED IN ACCORDANCE WITH THESE INSTRUCTIONS. IF USED OTHERWISE THE XCAPER PERSONAL SMOKE MASK KIT MAY FAIL TO PERFORM AS DESIGNED AND ANYONE RELYING ON THIS KIT COULD SUSTAIN SERIOUS PERSONAL INJURY OR DEATH.

For more information, call:

1-800-368-5705

or visit our website at:

www.xcaper.com

SAVE THESE INSTRUCTIONS

Xcaper Personal Smoke Mask Kit

IMPORTANT SAFETY INSTRUCTIONS

WARNING – READ CAREFULLY AND COMPLETELY

The Xcaper Personal Smoke Mask is not approved for entry into a contaminated environment, or for respiratory protection while working. An adequate respiratory protection program must include knowledge of hazards, hazard assessment, selection of proper respiratory protective equipment, instruction and training in the use of equipment, and inspection and maintenance of equipment. This respirator will perform as designed only if used and maintained according to the manufacturer's instructions.

This respiratory protective device does not supply oxygen!

- Use only in adequately ventilated areas which conform to the appropriate standard.
- Use strictly according to the instructions, labels, and limitations pertaining to this device.
- The Xcaper Personal Smoke Mask Kit **IS NOT** to be used to fight fires.
- The Xcaper Personal Smoke Mask must be stored in its original, unopened foil bag until needed for escape.
- The mask is for single use **ONLY** for a short duration and must **NEVER** be reused.
- Dispose of the mask if used, damaged or the expiration date is exceeded. Do not use a damaged Xcaper Smoke Mask.
- The Xcaper Smoke Mask is not designed to provide respiratory protection in the presence of CBRN (chemical, biological, radiation and nuclear) agents.
- Do not remove the mask while in a contaminated atmosphere.
- This device **WILL NOT PROTECT YOU FROM EXTREME HEAT OR FLAMES.**
- This product is not intended for any use other than self rescue.

Xcaper Personal Smoke Mask Kit

OPERATION AND INSTRUCTIONS

WARNING

The following instructions must be read and followed by all persons who have, or will have, the responsibility for using the Xcaper Personal Smoke Mask Kit. Use strictly in accordance with the instructions, labels, and limitations pertaining to this device. This product has a limited shelf life and should be replaced after the expiration date on the packaging. Inspect the packaging of the Xcaper Personal Smoke Mask at least once each year for punctures or tears. Should you find a puncture or tear in the foil packaging immediately return the product to the manufacturer for replacement.

The warranties made by Xcaper Industries with respect to the product are voided if the product is not used in accordance with the following instructions. Please protect yourself and/or your family and friends by following the instructions. Please read and observe the warnings and cautions contained in these instructions.

General Description

The Xcaper Personal Smoke Mask Kit has been tested in accordance with EN 403:2004, and is designed to provide respiratory protection for a minimum of 15 minutes from smoke, carbon monoxide, acrolein, hydrogen chloride, hydrogen cyanide and particulate matter as well as other dangerous gases.

Training

The Xcaper Personal Smoke Mask is available in one universal size. Before using the Xcaper Personal Smoke Mask, the user should review the donning instructions that follow. This is necessary since the Xcaper Personal Smoke Mask must not be deployed until an actual emergency.

Shelf Life and Maintenance

The Smoke Mask included in the Xcaper Personal Smoke Mask Kit has a shelf life of three years. The expiration date is marked on the foil bag label and the Xcaper Personal Smoke Mask should be replaced at that time. Periodically and at least once each year you should visually check the foil bag to make sure that it is not damaged, that there are no punctures or tears and that the bag remains vacuumed sealed.

Storage

Do not store the Xcaper Personal Smoke Mask below -1.2°C or above 50.0°C. Always keep the Smoke Mask in a convenient and readily accessible location. Temperatures inside motor vehicle can sometimes exceed 50.0°C.

General Usage Instructions

The Xcaper Smoke Mask is manufactured with a proprietary (patented), natural formulation that is hypoallergenic and makes the Xcaper Personal Smoke Mask feel cool and moist to the touch. You may smell or taste smoke at the beginning of use. **DO NOT PANIC!**

⚠ WARNING - Do not use this mask in environments where the temperature is below -7.0°C.

Size and Fit

The Xcaper Personal Smoke Mask come is one size. Due to its unique “bean bag” design and moisture vapor seal, this mask will fit all faces sized regardless of the presence of facial hair.

Use by Children

The elastic straps that secure the mask to the face may be too large for use on children under the age of six years old. In the case of an emergency, adults should first don the Xcaper Personal Smoke Mask and then place a mask over the mouth and nose of a companion child. In the event that the elastic straps do not hold the mask snugly to the face of a child use a free hand to hold the mask on the child's face while evacuating the area.

Use of Goggles

This product may not be suitable for individuals that wear glasses. If you wear glasses and require them to see sufficiently in order to evacuate, first try placing the Xcaper goggles over your eyewear to see if you get a good seal. If not, you may place your glasses over the goggles. Should your glasses not fit over the goggles then we recommend you purchase goggles manufactured by Paulson Manufacturing Inc. that are designed to fit over glasses. Due to the tearing nature of the eyes, it is not absolutely necessary to wear goggles, however, your visibility will be enhanced and, as such it is highly recommended that you wear the goggles included in the Xcaper Personal Smoke Mask Kit.

Verbal Communication

The Xcaper Personal Smoke Mask may slightly muffle communication; however, communication is possible while wearing the mask.

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The Xcaper Personal Smoke Mask Kit

DONNING INSTRUCTIONS



Open the foil bag by tearing at any of the four notches located on the side edges near the corners of the bag. **Do not open the foil bag until the mask is needed in an emergency.**



Before removing the mask from the foil bag, massage the mask through the bag between the palms of your hands for 1 to 2 seconds. Then, remove the mask from the foil bag. The mask will feel cool and moist to the touch.



Place your nose and mouth in the center of the mask and pull both straps over the back of your head. The longer strap should go above your ears around the upper part of your head. The shorter strap should go below your ears around the lower part of your head. Adjust the straps to where the mask feels most secure. In the unlikely event that one of the straps breaks, hold the mask over your mouth and nose with a free hand.



Remove the goggles from the protective plastic case. Place the goggles over your eyes and pull the strap over the back of your head. Adjust the goggles to where they are most comfortable.

Xcaper®
Personal Smoke Mask Kit

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Testing

Independent laboratory tests have verified that the Xcaper Personal Smoke Mask protects against smoke, particulate matter, carbon monoxide and other hazardous gases. The Xcaper Personal Smoke Mask will last a minimum of 15 minutes. European Standard EN 403:2004 was used as a basis for testing the Xcaper Personal Smoke Mask and Kit. EN 403:2004 was developed for filtering devices with a hood for escape from fire. As the Xcaper Personal Smoke Mask Kit is not a hooded device and certain deviations in the testing protocols were necessary. Any instance where a deviation was required is described below.

Laboratory Testing

The Xcaper Personal Smoke Mask has been tested against gases and vapors in accordance with EN 403:2004. Below are the test results for the Xcaper Personal Smoke Mask as it pertains to the break through levels permitted by EN 403:2004.

Challenge Gas	Concentration	Allowable Breakthrough	Actual Breakthrough
Acrolein	100 ppm	0.5 ppm	5.0 ppm
Hydrogen Cyanide	400 ppm	10.0 ppm	8.4 ppm
Hydrogen Chloride	1,000 ppm	5.0 ppm	3.0 ppm
Carbon Monoxide	2,500 ppm	200.0 ppm	137.5 ppm

Laboratory testing performed at RNK Environmental, Inc. Erlanger, KY, USA.

Although the Xcaper Personal Smoke Mask does not meet the allowable breakthrough for Acrolein please note that the U.S. Department of Health and Human Services has published a study stating that the highest levels of Acrolein ever measured in a fire was 3.2 ppm versus the test level of 100 ppm. At 10 ppm of Acrolein the Xcaper Personal Smoke Mask has been proven to have an actual breakthrough level of 0.25 ppm.

EN 403:2004 requires testing against four different concentrations of carbon monoxide to establish the catalytic characteristics of the materials used. The Xcaper filter does not contain catalytic materials so it was only tested against one concentration of carbon monoxide, as shown above, and met the standard for that test.

EN 403:2004 requires an integrity test to be performed on hooded devices. As the Xcaper Personal Smoke Mask Kit does not include a hood, this test was not performed.

EN 403:2004 also requires that leakage tests be performed on hooded devices to test for inward leakage in the breathing zone and the ocular zone. As the Xcaper Personal Smoke Mask Kit comes with goggles, these tests were performed with over 20 test subjects, with and without facial hair, eye glasses and contact lenses. These tests indicated that there was no leakage into either the breathing zone or the ocular zone.

The Xcaper Personal Smoke Mask has been shown in laboratory tests to filter 96.4% of particulate matter at a size of 0.3 microns which meets the requirements of EN 403:2004. However, these tests were not performed in accordance with EN 403:2004 which uses sodium chloride in accordance with the requirements of EN 143. Instead, the tests performed on the Xcaper Personal Smoke Mask utilized 0.3 micron latex spheres.

Field and Live Fire Testing

The Xcaper Personal Smoke Mask has also been tested under live fire conditions by firefighting professionals in California, New York and Mexico. Such conditions are not controlled to the extent they are during laboratory testing. However, these tests provide additional evidence of the efficacy of the Xcaper Personal Smoke Mask. These tests have shown the Xcaper Personal Smoke Mask to be effective against the harmful effects of smoke for a minimum of 15 minutes. Do not attempt to use the Xcaper Personal Smoke Mask except in the case of an emergency.

NOTES



About Xcaper Industries, LLC

Xcaper Industries, LLC develops, manufactures and sells respiratory protection products. Whether it is a life threatening situation or a hazardous work environment our revolutionary, patented filtration technology can provide protection against toxic gases and deadly particulates. Our products address the occupational needs of firefighters, law enforcement, first responders and emergency service workers. Our technology is also utilized in products that protect everyday citizens who may become exposed to dangerous situations.

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