

**OPERATION MANUAL**  
**Suppressall™ FS1**  
**AEROSOL FIRE SUPPRESSION TOOL**



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## THANK YOU FOR YOUR PURCHASE!

Thank you for purchasing the Suppressall FS1, the most efficient and advanced aerosol fire suppression tool on the market today.

Correct and timely usage of the Suppressall FS1 can prevent and / or significantly reduce the damage caused by fires. Additionally, the Suppressall FS1 allows its user the ability to mitigate the danger posed by flash-over and back-draft to firefighters and first responders. While no device portable device can prevent or totally suppress the harmful effects of a fire, the Suppressall FS1 is a unique way to combat fires and represents a giant advance in fire-suppression technology from water or other chemical-based methods.

The Suppressall FS1 is a small, portable unit that contains potassium based chemical components. It is designed to be a first-use method to combat class A, B, C, and K fires. When the device is deployed at the scene of a fire, the Suppressall FS1 releases a cloud of aerosol containing the potassium components, interrupting the chain reaction in the flame.

When utilized and deployed according to the instructions in this Operation Manual, it provides an effective method of fire suppression that minimizes the risks posed by more traditional methods of fire-fighting.

Please use this Operation Manual as the source of information for storing, using, and disposing of the Suppressall FS1.

FIRE SUPPRESSION INDUSTRIES, LLC 2024

## HOW THE SUPPRESSALL™ FS1 WORKS

### HOW IT WORKS

The SUPPRESSALL™ FS1 is a portable fire suppression device. It is not a fire extinguisher and not intended to replace any fire extinguishers that are required by NFPA 10 or USCG regulations. The unit consists of a steel housing containing chemical agents that form the aerosol, separated by an insulating barrier; a handle for ease of transportation and deployment and a securing pin and an igniter pin that is used to activate the SUPPRESSALL™ FS1 electronically.

The SUPPRESSALL™ FS1 is an active fire suppression system utilizing an environmentally safe, condensed aerosol that, when deployed, has the appearance of smoke.

When the unit is deployed and its aerosol is released, the aerosol drastically reduces the temperature of the room immediately (by up to 1,000°F in less than 1 minute in most cases). The aerosol interrupts the thermal activity from the chemical reaction taking place without removing oxygen from the enclosure.

The SUPPRESSALL™ FS1 is significantly different from CO<sub>2</sub>, dry chemical, and water-based fire prevention systems. Its condensed aerosol works simultaneously on the fire tetrahedron (heat, fuel and the fire's chemical reaction) without affecting oxygen levels. When used in accordance with these instructions, deployment of the SUPPRESSALL™ FS1 poses no risk to occupants and first responders and will effectively minimize any of the fire's collateral and environmental damage.

The device inhibits the fire from obtaining the oxygen radicals it needs to continue burning and spreading further. Once activated by the user, the potassium based compounds of the SUPPRESSALL™ FS1 are heated, turning the solid compounds into an aerosol that can spread rapidly throughout the area containing fire.

One SUPPRESSALL™ FS1 generally can effectively suppress a fire in a room that measures up to 5,300 CU. FT., if the room does not have any greatly open spaces. Once deployed, the device discharges its aerosol for approximately 35 seconds. The unit's aerosol can remain suspended for up to 45 minutes, depending on how enclosed the room is.

You should immediately see results in the flames of the fire as the FS1's aerosol interrupts the chemical reaction of the fire, stopping completely or greatly slowing the rate at which the structure and/or contents burn.

The use of the SUPPRESSALL™ FS1 will lower the temperature in the affected space by literally 1,000-Fdegrees in less than 1 minute, making it safer and easier for trained firefighting personnel and first responders to control the spread of the fire.



## BEFORE USING THE SUPPRESSALL™ FS1

### WHO SHOULD USE THE SUPPRESSALL™ FS1

Only those personnel who are trained and are familiar with the operation of the SUPPRESSALL™ FS1 should use it. All operators should read and understand this Operation Manual prior to use.

### INSPECTIONS

All SUPPRESSALL™ FS1 units should receive an inspection once per year and a replacement of batteries ***once every TEN (10) years***. All batteries can be replaced by the owner. **YOU MUST ONLY USE ORIGINAL BATTERY PACKS PROVIDED BY YOUR DISTRIBUTOR OR THE COMPANY YOU PURCHASED YOUR UNIT FROM. IF YOU NEED ASSISTANCE, PLEASE CALL (800 564-8611 TO INQUIRE ABOUT NEW BATTERIES FOR YOUR FST UNIT.** Inspectors should make sure that the SUPPRESSALL™ FS1 is not damaged in any way and there is no evidence of use or deployment.

Never try to disassemble the SUPPRESSALL™ FS1 . If you try to disassemble the SUPPRESSALL™ FS1 and you alter the unit, you will break the unit and it will remain unrepairable and not covered under any warranty. **ALWAYS** leave the protective R-Pin in place until it has been determined the device is required to fight a fire. If the device has been damaged in any way, it should not be deployed. Should the Igniter pin and ring become detached accidentally from the unit, immediately throw the unit away from yourself and any person in the vicinity. At this point, the 8 second countdown until ignition has begun and CANNOT be reset. The unit will deploy its aerosol after the 8 second countdown.

**STORAGE** Keep the X-TINGUISH® X-TREME in its original case whenever possible and store it in a place that is not exposed to extreme heat or humidity. Avoid contact with heat, sparks, flames, and other heat sources. Do not drill, solder or cut the unit. Keep it away from oxidizing agents, strong acids and strong bases. The SUPPRESSALL™ FS1 will normally be safe for its intended use for a period of 15 years when stored properly. Once every TEN (10) years the unit's battery must be replaced.

## DEPLOYING THE X-TINGUISH® X-TREME

### PREPARING FOR DEPLOYMENT

All first responders should assess the situation and make a determination as to whether to use the SUPPRESSALL™ FS1 . Since every fire is different, first responders should use their judgment as to where and when to deploy the SUPPRESSALL™ FS1 . The SUPPRESSALL™ FS1 will achieve maximum results if the fire room is enclosed and is deployed near the seat of the fire.

Announce to any fire personnel or bystanders that the SUPPRESSALL™ FS1 is being deployed and advise them to keep a safe distance (3' from where the unit will land).

## SUPPRESSALL™ FS1 QUICK START GUIDE

The SUPPRESSALL™ FS1 comes equipped with 2 (two) types of metal pins. This document will explain how the R-Pin is used in conjunction with the igniter pin. The R-Pin was added to secure the Igniter pin in-place.

### Deploying the SUPPRESSALL™ FS1

- Evaluate the scene and decide the safest place to deploy the SUPPRESSALL™ FS1 that is nearest the seat of the fire.
- When the decision to deploy the SUPPRESSALL™ FS1 has been made and you are in position, firmly grasp the R-Pin and pull it straight out of the unit. Removing the R-Pin unlocks the Igniter pin so it can be used to deploy the FS1. (Picture 1)
- After removing the R-Pin, firmly grasp the Igniter Pin (1) and pull it straight out of the unit. Once the Igniter pin has been pulled the 8 second count-down until deployment will start and this action cannot be stopped once initiated. You must deploy the unit immediately after pulling the pin. (Picture 2)
- Immediately throw the SUPPRESSALL™ FS1 into the structure near the seat of the fire. Once the unit is safely deployed, return to business as usual. The unit will work independent of any human intervention. (Picture 3)



**After deploying the SUPPRESSALL™ FS1 , make sure all efforts are maintained to insure a closed fire room to contain the aerosol.**

**DO NOT VENTILATE AT THIS POINT. Allow the SUPPRESSALL™ FS1 the needed time to do its job.**

Call 800 564-8611 or email [info@flameresponseusa.com](mailto:info@flameresponseusa.com) with any questions you may have.

## DEPLOYING THE SUPPRESSALL™ FS1

### DEPLOYING THE SUPPRESSALL™ FS1

- Once the Igniter pin has been pulled the device is now activated and will begin dispersing the aerosol in 8 seconds.
- After the igniter pin has been pulled, DO NOT ATTEMPT to prevent the activation of the device. Never attempt to retrieve a device that has been activated or to re-install any pin.
- Make sure that the person deploying the device can accurately throw the unit toward the intended target location. It is best to stand or kneel when throwing the device, aiming for level ground.
- Throw the SUPPRESSALL™ FS1 at or near the base of the fire, taking care to keep the device away from persons in the area, if possible.  
After deploying the SUPPRESSALL™ FS1, make sure all efforts are maintained to ensure a closed fire room to contain the aerosol. **DO NOT VENTILATE AT THIS POINT.** Allow the SUPPRESSALL™ FS1 the needed time to do its job.
- Overhaul as usual and look for hotspots.
- The SUPPRESSALL™ FS1 aerosol will continue discharging for 30 seconds.

**WARNING:** IT IS VERY IMPORTANT NOT TO DISTURB THE IGNITER PIN UNTIL YOU ARE READY TO DEPLOY THE UNIT. AFTER THE PIN IS PULLED, IMMEDIATELY THROW THE UNIT INTO THE FIRE. THE SUPPRESSALL™ FS1 WILL AUTOMATICALLY ACTIVATE 8 SECONDS AFTER THE PIN IS PULLED. THIS PROCESS CANNOT BE STOPPED ONCE THE IGNITER PIN HAS BEEN REMOVED. ONCE YOU PULL THE IGNITER PIN YOU MUST DEPLOY THE SUPPRESSALL™ FS1 INTO THE FIRE OR IF YOU ACCIDENTALLY PULLED THE IGNITER PIN, THROW IT AWAY FROM YOURSELF AND ANY PERSONS WITHIN THE VICINITY.

**WARNING:** VERY IMPORTANT.

WHEN INSTALLING THE BATTERY PACK, IF THE RED LIGHT GOES ON AFTER CONNECTING THE BATTERY, AND BEFORE PULLING ANY PINS, IMMEDIATELY DISCONNECT THE BATTERY. THIS MEANS THE UNIT IS COUNTING DOWN AND ACTIVE. IT WILL DEPLOY WITHIN 8 SECONDS FROM THE TIME THE BATTERY IS CONNECTED. IF NECESSARY, PULL THE BATTERY AND CABLE HARD ENOUGH TO DISCONNECT THEM FROM THE HANDLE. FSI WILL REPLACE THE UNIT.

## AFTER USING THE SUPPRESSALL™ FS1

### CAUTION

AFTER PULLING THE IGNITER PIN - DO NOT HOLD ON TO SUPPRESSALL™ FS1. IMMEDIATELY THROW THE SUPPRESSALL™ FS1 AWAY FROM YOU AND TOWARDS THE SEAT OF THE FIRE.

### IN THE AFFECTED AREA

Do not enter the treated area until the SUPPRESSALL™ FS1 has discharged completely. It is advisable to allow the aerosol adequate time to treat the fire and dissipate before entering the space.

The area should be ventilated following use. Overhaul must be undertaken after the SUPPRESSALL™ FS1 device has been utilized to eliminate any hotspots that could be remaining.

Those personnel who enter the space where a SUPPRESSALL™ FS1 has been deployed should wear protective breathing gear to prevent the inhalation of the aerosol. Treat any persons exposed to the aerosol for extended periods of time the same as you would for mild smoke inhalation. Remove the victim to fresh air and allow them to breathe normally. The aerosol is non-toxic to humans and pets alike.

**Follow the recommended procedures for safety, first aid, and cleanup in the Warnings and Guidelines section of this Operation Manual.**

While the SUPPRESSALL™ FS1 is a safe and effective method of fire suppression, it is important to always adhere the guidelines when using the SUPPRESSALL™ FS1: Firefighters or other fire prevention officials should use the SUPPRESSALL™ FS1 devices only in accordance with their departments local rules or guidelines. This Operation Manual is not intended to replace or supersede any fire department's standard operating procedures.

Persons who do not have experience or training in firefighting or fire prevention should only use the SUPPRESSALL™ FS1 if he or she has received thorough instructions on the use of the SUPPRESSALL™ FS1. Never approach a fire or enter a burning structure under any circumstances. Contact your local fire department for assistance.

**FIREFIGHTER NOTE:** Positive Pressure Ventilation will diminish the effective concentrations of the aerosol. PPV will reduce the knock down time. SUPPRESSALL™ FS1 devices work best in contained areas. PPV should only be used when a fire is completely knocked down and water supply is available.

It is advisable to always have one or more SUPPRESSALL™ FS1 devices ready for use to avoid any delay in locating one when at a fire scene or if more than one is needed at the fire. Do not eat or drink in the vicinity of an activated SUPPRESSALL™ FS1 device.

## WARNINGS AND GUIDELINES

All personnel that may come into contact with the aerosol should wear protective clothing, including mouth/nose covers to prevent aerosol inhalation, protective goggles, face shield or other face protection, fireproof gloves and suitable protective body covering. NIOSH-Approved N95 Particulate Filtering mask is acceptable.

## ENVIRONMENTAL

### DISPOSAL

Generally, the SUPPRESSALL™ FS1 units can be disposed of according to normal disposal procedures per municipality.

### GLOBAL WARMING IMPACT

The SUPPRESSALL™ FS1 does not pose any global warming threats. It measures zero on both the Ozone Depletion Potential and Global Warming Potential scales.

## CLEAN UP FOLLOWING DEPLOYMENT

### THE SUPPRESSALL™ FS1 UNIT

The used SUPPRESSALL™ FS1 unit can be disposed of according to the normal disposal procedures for other fire-related materials.

### THE AEROSOL RESIDUE

If the aerosol leaves behind a layer of dust or film, it can be removed with a damp cloth or broom and dustpan. If needed, wash the affected area thoroughly with water.

### FIRE EQUIPMENT

Clean protective clothing and other firefighting equipment exposed to the aerosol in the normal manner.

## FIRST AID PROCEDURES

The components in the aerosol are non-toxic and are stable under normal conditions. It is not known to be a carcinogen. Exposure to the aerosol may cause slight side effects that should be attended to immediately.

### **EYE CONTACT**

Exposure to the aerosol may cause slight eye irritation. Avoid rubbing the eyes. Remove any contact lenses, lift eyelids and rinse with large amounts of water or normal saline. If any conditions continue, consult a physician.

### **SKIN CONTACT**

Exposure to the aerosol can cause mild skin irritation, including slight reddening of the skin. Wash affected area with soap or mild detergent and water until no evidence of chemical remain. If any conditions continue, consult a physician.

### **INGESTION**

If somehow, the metal casing is opened and the product inside is ingested, the following is recommended. Remove by gastric lavage or emesis. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Do not perform lavage or emesis if victim is unconscious. Get medical attention immediately.

### **INHALATION**

Remove from exposure area to fresh air immediately. Treat the same as mild smoke inhalation. If condition worsens, as with any smoke inhalation, contact a physician.

## LIMITED WARRANTY

### LIMITED WARRANTY FROM DATE OF PURCHASE AND LIMITATION OF LIABILITY

SUPPRESSALL™ FS1 AEROSOL PRODUCTS ARE TO BE OPERATED ONLY BY TRAINED PERSONNEL.

The manufacturer of the SUPPRESSALL™ FS1 provides a one year limited warranty against defects in materials and workmanship.

**Limitations of Coverage:** Manufacturer's original warranty assumes use, installation, and maintenance in accordance with the Product's documentation. The warranty does not cover damage or loss of performance due to improper installation, faulty or inappropriate preparation, abuse, vandalism, excessive wear and tear or abrasion, excessive physical shock, exposure to harmful chemicals, exposure to extremes of temperature, improper maintenance, usage by untrained personnel or any use outside those defined in the Product's documentation.

a) Company warrants to Distributor that the Products shall be free from defects in materials and workmanship, in all material respects, for a period of Twelve months from date of end user purchase, when used and maintained in accordance with the Company operating and maintenance instructions. Products deemed to be defective by Distributor should be shipped to Company for inspection. B. Distributor's exclusive remedy for breach of warranty shall be limited to repair or replacement (at Company's option) of any parts found defective by Company within the warranty period. C. The foregoing Warranty shall be void in the case of any failure to use and maintain the Product in accordance with the Company operating and maintenance instructions, rough handling, mechanical damage, alteration, repair not in accordance with Company instructions, or Distributor's failure to immediately notify Company of any defective Product. D. The warranty sets forth the full extent of Company's liability and is in lieu of all other warranties or remedies, express, implied or statutory, and all other obligations or liabilities of Company, with respect to the Products, including but not limited to, warranties of merchantability or fitness for a purpose.

Disclaimer of Responsibility: Neither the Supplier nor its directors, officers, employees, or agents shall be held liable for any improper or incorrect use of the Products and assume no responsibility for any-one's use of the Products. In no event shall the Supplier be liable for any direct, indirect, incidental, special, exemplary, consequential or punitive damages (including, but not limited to, personal injury or death; procurement of substitute goods or services; loss of use, data, profits or savings; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of the Products, even if advised of the possibility of such damage. This disclaimer of liability applies to any damages or injury, including but not limited to those caused by any failure of performance, error, omission, interruption, deletion, defect, delay in operation whether for breach of contract, tortious behavior, negligence or under any other cause of action. Limitation on Liability: If, despite the other limitations set out above, for any reason the Supplier becomes liable to the purchaser or any other party for damages or other liabilities incurred in connection with the Products then the Supplier's aggregate liability for all damages, injury, and liability incurred by the Supplier in connection with the particular Products shall be limited to the current replacement cost of the particular Product that gives rise to the claim for damages. Indemnification: By taking delivery of the Products, the purchaser agrees to defend, indemnify, and hold harmless Flame Guard USA, LLC, its contributors, any entity jointly created by them, the irrelative affiliates and the irrelative directors, officers, employees, and agents from and against all claims and expenses, including attorneys' fees, arising out of the use of the Products



# CONTACT US

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