

# Superior<sup>TM</sup> Smoke For Realistic Drills



***Inexpensive, Effective, Easy to use!***

*The above photo is an actual training exercise using Superior Smoke.*

***Select, Don't Settle!***

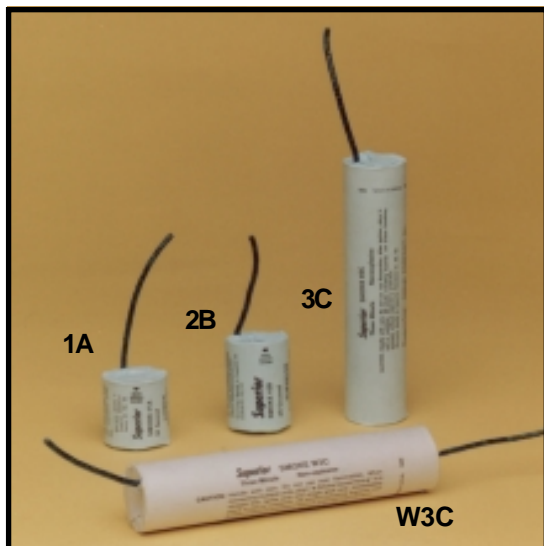
For over 45 years the **Superior Signal** Company has provided quality products to the fire service industry. Only **Superior Signal** offers you a **choice** of excellent products designed for specific training applications. We are the **only** source for all types of training smoke: disposable high volume generators, or rugged smoke machines.

The training process involves a progressive series of exercises based on the trainee's level of competence, and related to the goal that all members can perform the assigned fire ground duties with minimum risk. Training exercises should be conducted according to fire ground S.O.P.'S. Remember, the psychology of learning uses the process of repetitive acts to reinforce performance of learned behavior. Consider the conditioned responses you are developing and select the atmospheric characteristics required to fulfill your training objectives.

Close to real conditions, where full dress and self-contained breathing apparatus are used, can be created utilizing inexpensive disposable smoke generators. These throwaway items provide huge volumes of pungent white smoke, and are a highly effective means of simulating a realistic disaster scene.

A **non-irritating smoke** for obscuring vision in confined spaces is provided by our popular **ST-10 smoke machine**.

# Classic Disposable Smoke Generators



- Versatile; Training officers can place these randomly into 55 gallon drums to develop controlled “unexpected” occurrences.
- No power source required.
- Produces huge volumes of pungent white smoke.
- Excellent for creating *realistic* disaster scenes such as large industrial disasters, hazmat incidents, and aircraft crash simulation.
- Total obscuring power (TOP) ten times that of crude oil.
- Persistent smoke can be seen for miles.

The Superior™ Smoke **#3C** generates a big 40,000 cubic feet of whitish gray smoke while burning from two to three minutes. Our most popular item for firemen training. *Size 1 1/2" x 5". Mailable. Shipping weight 5lbs. per dozen.*

The Superior™ Smoke **#W3C** generates approximately 40,000 cubic feet of whitish gray smoke in two to three minutes; double wicked with quick clips furnished for multiple units extending smoke generating time.

The Superior™ Smoke **#1A** generates 4000 cubic feet of smoke in thirty seconds. *Size 1 1/2" x 1 1/2". Mailable. Shipping weight 2 lbs. per dozen.*

The Superior™ Smoke **#2B** generates 8000 cubic feet of smoke in one minute. *Size 1 1/2" x 2". Mailable. Shipping weight 2 lbs. per dozen.*

The Superior™ method of generating smoke by chemical reaction provides smokey atmospheres for training exercises involving the use of self-contained breathing apparatus. The smoke has excellent obscuring power and pungent odor revealing inadequate protection. Superior™ Smoke items contain no explosive materials and are the only devices of this nature acceptable in the mails. It has a T.O.P (total obscuring power) of 2100. T.O.P. is the scientific method of determining the relative efficiency of smoke generated by a given unit of smoke composition. By comparison, Superior™ Smoke has a T.O.P. ten times greater than crude oil. More smoke, exclusive features, plus low prices make Superior™ Smoke products your best buy.

**Superior™ Smoke Grenades** are engineered for use where an instantaneous and exceptionally large volume of smoke is required. They are solidly constructed with a dependable built-in-pull-wire ignitor and warranted for three years.

**Superior™ Smoke Grenade** generates 115,000 cubic feet of smoke during 2-3 minutes burning time. *Size 2" x 5", weight 1lb.*

**Superior™ Professional Smoke Grenade** generates 130,000 cubic feet of smoke while burning 2-3 minutes, *size 2 1/2" x 5" weight 1 lb.*



The **Superior™ Professional White Smoke Pot** is activated by a sure fire pull-wire ignitor. It generates over 500,000 cubic feet of dense white smoke, sufficient to simulate a city block sized disaster area, during a five to six minute burning time. The ignitor and smoke generating materials are enclosed in a sturdy sealed metal container, with an easily removed U-Press-it closure, protecting them from atmospheric changes, the principal cause of ignition failures and unsatisfactory performance. *Warranted for three years. 6 3/4" x 4", shipping weight 5 lbs.*

Handle carefully. Avoid exposure to smoke without respiratory protection. Do not use in confined areas without self contained breathing mask. Superior Smoke Pots and Grenades are for outdoor use only.

**CAUTION: Handle with care. All smoke including Superior™ can irritate breathing passages without respiratory protection. Before use, read and understand MSDS.**



**Superior™ Smoke** items generate a gray to white smoke depending upon density and lighting conditions. It simulates actual smoke in appearance and smell without lingering odors or residue to damage clothing and walls. Select the appropriate Superior™ Smoke product according to the volume of the exercise area and the air movement through the space. The smoke will remain in suspension for fifteen minutes or longer depending on tightness of room. The training exercise can begin after the smoke item has finished producing the highly visible smoke and it has been allowed to blend into a homogeneous mixture with room air.

**SMOKE DRILLS:** Fire, haz. mat. and rescue departments should hold regular drills to maintain the efficiency of smooth operating procedures while wearing full protective gear including self-contained breathing apparatus. Trainees should be instructed thoroughly in the operation of equipment and procedures. All participants of the smoke drill exercise should be instructed to leave the smokey atmosphere if they notice any problem with their equipment or sense any irritation. Proof of adequate protection will be no irritation. The training area should have several convenient exits. With a T.O.P. of 2100, Superior™ Smoke provides maximum obscurity at minimum concentrations. The room to be used for drills should contain furniture, rearranged from time to time to prevent familiarity with the layout. Retrieving a can or some easily identifiable object will teach men to feel their way through smoke. Some instructors require trainees to carry sand bags or saw wood to become accustomed to the breathing restrictions encountered while wearing a mask. The glow from a highway flare or the flame and heat from a barricaded fire gives valuable practice in sizing up a fire and its location through the smoke by a faint glow or tell-tale wave of heat. Regular drills teach men to handle themselves and their equipment with a minimum of effort and panic enabling them to concentrate on their assigned jobs of sizing up and fighting fires or making rescues. Training officers can schedule drills with a minimum amount of pre-arrangement. This effective yet simple to use method of developing smokey atmospheres satisfies training criteria.

**ASSOCIATED DRILLS:** Ventilation procedures can be practiced, and the effectiveness of various smoke ejector positions can be demonstrated. Evaluations of smoke control systems and smoke alarm systems, also, air flow studies to determine the most effective placement of smoke alarm detector systems.

## Model ST-10 Smoke Machine

*Offers High Performance, Output, and Durability at an Affordable Price.*

Superior Signal Company Inc. has provided training smoke to the fire fighting industry for over 45 years! We know what you need in a smoke machine, and the ST-10 is it! With a powerful 1500 watt heating core, and reliable high pressure piston pump, this machine delivers an impressive output of 4800cfm, at a price affordable for any department. The ST-10 will quickly fill your training area with dense, persistent, non-irritating smoke with excellent obscuring power.

The ST-10 comes standard with a 10 meter wired remote control which makes operation easy. No more searching for controls in a smoke filled room. This hand held remote features a selection for manual, or self timed (unmanned) operation.

Simply set the dial to control flow rate, duration of smoke blasts, and interval between blasts. The ST-10 will fill the area with smoke at a steady constant rate, therefore reducing the chances of over concentration and residues.



### FEATURES

- Adjustable Flow Rate
- Quick Warm-up Time
- Reliable High Pressure Pump
- Extremely Easy to Use
- Thermal Cut Off, Prevents "Wet Smoke"
- Non-Irritating Smoke\*
- High Output, Low Cost
- Manual and Auto Timer

### SPECIFICATIONS

- Output: 4800 CFM
- 1500 watt heater
- Weight: 30 lbs
- Fluid Capacity: 1 Gallon
- Warm-up Time: Approx. 10 -15 min.
- Conforms to ANSI/UL Std. 998,
- Certified to CSA Std. C22.2 No. 104
- Power: 110/120v 60Hz



*ST-10 Fluid is compatible with some competitive machines!*

*\* May be irritating to those persons with allergenic sensitivity.*



# Superior Signal Company, Inc.

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## Members

Fire and Emergency Manufacturers and Services Association Inc. (FEMSA)  
National Fire Protection Association (NFPA)  
National Volunteer Fire Council (NVFC)  
International Society of Fire Service Instructors (ISFSI)

## Warranty Information

All Superior™ classic smoke candles are warranted for 1 year, and are guaranteed to work within this time period. If an item should fail, simply return for free replacement. Items have been known to work several years after date of manufacture when stored cool and dry.

The *Superior™ ST-10 Smoke Machine* is warranted for 1 year to be free of manufacturing defects adversely affecting performance. This does not cover abuse or misuse. Should a unit fail within the 1 year warranty period, it will be repaired or replaced provided in the opinion of the factory, the unit has been properly cared for, and not tampered with or abused. Units which have failed due to lack of cleaning, use of incompatible fluid, no fluid, incorrect fuse type, or improper packaging will be charged a service fee.

Superior warrants that this product conforms to the Product Description contained in this literature. Superior makes no other warranty, whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose or application. No statements or recommendations contained herein are to be construed as inducements to infringe any relevant patent, now or hereafter in existence. Superior neither assumes nor authorizes any representatives or other person to assume for it any obligation of liability other than such as is expressly set forth herein. Under no circumstances shall Superior be liable for incidental, consequential or other damages from any alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of this product.