



Cleaning and Laundering
Maintenance Guide

FIREZERO CLEANING & MAINTENANCE GUIDE



NFPA® 2112 - TESTING & COMPLIANCE



Product testing and facility audits are performed by a 3rd party certifier as required by NFPA® 2112. Manufacturers cannot do their own testing or simply state that they

use "recognized components" in assembling their garments. FireZero has chosen the industry leader, Underwriters Laboratories (UL®) to be our 3rd party certifier.

FABRICS & GARMENTS

Important Information regarding flame-resistant garments certified to NFPA 2112 - 2018 Standard on Flame-Resistant Clothing for Protection of Industrial Personnel against Short-Duration Thermal Exposures from Fire and ASTM F1506 Standard Performance Specification for Flame Resistant and Electric Arc Rated Protective Clothing Worn by Workers Exposed to Flames and Electric Arcs.

INTRODUCTION

This User Guide gives important information regarding the use, care, and maintenance of your FireZero flame resistant garment. Upon receipt and inspection of the garment, you should thoroughly read this User Guide and refer to it as needed for continued safe use of your garment.

WARNINGS

This garment is intended to provide limited protection to you in the event of exposure during a flash fire or electric arc incident.

This garment will not protect against any extended exposure to direct flame or high heat and is not intended for use in firefighting or other emergency operations, including wildland firefighting, technical rescue, or structural firefighting. These garments are not intended to protect the wearer from exposure to chemicals, radiological agents, biological agents, or other hazardous materials.

This garment alone will not protect from all potential hazards. You or your employer must conduct a hazard and risk assessment in accordance with local laws and industry standards to determine the suitability of this garment for its intended purpose. Additional garments or personal protective equipment may be necessary to provide you complete protection. This may include, but is not limited to: head protection, eye/face protection, hand protection, foot protection,

USER INFORMATION

WARNING — Read this User Guide carefully. All of the instructions contained in it are intended to warn you of potential risks of serious injury and death and to reduce such risks. If they are not followed, the risk of serious injury or death will increase. It is your responsibility to familiarize yourself with this User Guide and to use your garments in accordance with its instructions.

THE PURCHASER HAS 10 DAYS AFTER RECEIPT OF GARMENT TO SUBMIT A CLAIM RELATING TO ANY MANUFACTURING DEFECTS, SHORTAGES, OR DAMAGE DUE TO SHIPPING; AFTER TEN DAYS NO CLAIM WILL BE ACCEPTED.

respirators, hearing protection, fall protection, high visibility apparel, and other protective garments.

The protective properties of this garment may be reduced or eliminated if not properly maintained. Do not use this garment if it is soiled, contaminated, or damaged. Soiling and contamination of this garment may render this garment hazardous. Clean this garment in accordance with the instructions provided in this user information below. If you have any doubt about the condition of this garment, do not wear it. Have the garment replaced.

You must be trained in recognizing hazards in your specific trade and understand the limitations of use for this garment prior to wearing it. Even though the garment is constructed of flame-resistant materials, this garment will not protect you from being burned under all conditions of use or exposure to hazards. Failure to understand these limitations may result in a serious injury or death.

GARMENT FIT & SIZE

Choose a flame-resistant garment size that properly fits your body. The garment should not be too tight or too loose, should not restrict your movement and should

be comfortable to wear. The recommended body dimensions for each size of FireZero garments are provided in the tables below.

	XS	S	M	L	XL	2XL	3XL	4XL	5XL
CHEST	30-32	34-36	38-40	42-44	46-48	50-52	30-32	58-60	62-64
WAIST	24-26	28-30	32-34	36-38	40-42	24-26	44-46	52-54	56-58

Regular = 5'8" - 6'0", Tall = 6'1" - 6'3", Tall sizes have 2" added to body and sleeve length. Inseam Length Available in: 30", 32", 34", 36"

GARMENT MARKINGS AND EMBLEMS

The use of flammable logos, name tags and other heraldry should be minimized. If used, the size of these items should be reduced as much as possible as flammable additions to the garment may compromise the garment in the event of a flash fire or electric arc exposure.

For any marking of these garments, it is recommended that identification be provided on the interior of the garment. For hand written markings, an industrial laundry marker may be used.

INSPECTION AND REPAIR

Periodically inspect your garment as follows:

A. Inspect your garment upon receipt, at least once a month, before and after each use, cleaning and/or following any application where the garment has been subjected to damage or contamination. In the event of exposure to hazardous materials, isolate the garment and perform the inspection only after the garment has been decontaminated.

B. Inspect all components for rips, tears, burn damage, and abrasion damage. Close attention should be paid to integrity of the thread and areas of wear at the shoulders, elbows, cuffs, crotch, and knees.

C. Physically inspect all major seams (e.g., shirt side seams, sleeve seams, shoulder seams, and trouser seat seams, outseams, inseams, etc.) for holes or other structural damage.

D. If any component is found to be damaged or missing, remove the clothing from service and have it repaired or replaced.

E. Inspect each article of clothing for the following types of wear or damage:

- Rips, tears, holes
- Brittle/stiff material

- Discoloration
- Charring
- Cleanliness
- Other fabric damage
- Damage to pockets
- Seam integrity
- Hardware function
- Closure operation
- Size and fit

Before any repairs are made to your garment, clean your garment in accordance with the instructions provided below.

All repairs to PhenixFR flame-resistant garments should be made using like fabrics and findings. This includes but is not limited to using fabrics that have met the same FR/AR standards as the garment fabric, and flame-resistant thread.

If you have purchased your coverall from a distributor with whom you have a repair agreement, contact your distributor directly for repairs.

Unauthorized repairs made to PhenixFR garments invalidates all expressed or implied warranties and may increase your risk of injury.



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STORAGE

After the garment has been cleaned and inspected, store your garments in a place that will protect them from direct sunlight heat and excessive moisture. Never store your garments in direct sunlight, as this condition may cause permanent damage. Exposure to ultraviolet light will cause the garment to lose

tensile strength. Once damaged, there is no way to repair this type of deterioration. Store garments in a dry area. Wet garments may promote the growth of mildew and fungus, which will permanently damage your garments.

CLEANING REQUIREMENTS

A. Dry cleaning is not recommended. Solvents may damage your garment

B. Never use chlorine bleach on FireZero garments. Chlorine bleach may discolor the fabrics, and cause garment materials to lose their performance characteristics, such as flame resistance, strength, etc.

C. Do not use fabric softeners. Fabric softeners are oil based and can contribute to fabric flammability.

D. Do not use automatic dryers if you have reflective trim on your garment. Automatic dryers can damage the reflective trim, which may impact its visibility performance. Hot drying temperatures or extended drying time will also cause greater material shrinkage.

E. Do not use hot water (120°F / 49°C). Overly hot water may cause excessive material shrinkage.

F. Keep protective garments clean. The garment's life expectancy and flame resistance increases if abrasive, flammable dirt and contaminants are removed after each use. Garments contaminated with unburned byproducts of combustion, as well as other flammable contaminants, may compromise or negate the ability of clothing to resist flame, and may not only ignite, but the garment may also continue to burn when it would normally self-extinguish.

HOME WASHING INSTRUCTIONS

A. Turn FireZero garments inside-out and wash separately from other clothing. The use of home-based washers and washers used by the public are not recommended in order to prevent the spread of contamination to other laundry items.

B. These instructions can be applied to washing a number of clothing items in the same load. The load size will depend on the machine type and its capacity. Most machines indicate that the load should be no more than 75 to 80% of the machine capacity. For example, a typical home style machine can accommodate up to 12 shirts, 4 pants, 3 sets of pants and shirts, or 5 lightweight jackets.

C. While the washing machine is filling up with warm water (temperature at 86°F \pm 5°F or 40°C \pm 3°C), add liquid or powder laundry detergent (without chlorine or peroxides) to the machine.

D. Fill the washing machine water to the highest level.

E. Add garments to be washed.

F. Set washing machine to "normal cycle" or similar setting and double rinse.

G. If garments are laundered at outside laundering facilities, the same procedures must be followed to avoid damaging the garments.

HOME DRYING INSTRUCTIONS

A. Select a dryer that has multiple heat settings.

B. Place washed garments inside dryer and use a low heat setting.

C. Do not use fabric softener.

D. Remove garments promptly at the end of the drying cycle; do not over dry as excessive heating of clothing can cause premature shrinkage.



INDUSTRIAL WASHING / CLEANING SERVICES

If outside organizations are used to clean your flame-resistant garments, ensure that the washing and drying procedures are effective in removing soils and other contaminants while not adversely affecting the condition and performance of your garments. These services should use some form of traceability for determining how many times your flame-resistant garment has been cleaned.

Garments contaminated from hazardous or caustic materials, such as solvents, liquids, dusts, mists, fumes, and vapors, must be immediately removed from service and retired as directed below in "Retirement and Disposal".

Unless it can be demonstrated by a qualified, competent authority that the garments can be properly decontaminated and are safe for reuse, your garments must be retired.

Do not use any decontamination agent or process unless it has been adequately demonstrated that its use will not damage your garments.

WARRANTY

FireZero warrants its flame-resistant garments to be free from workmanship and material defects for the useful life of the products when the garments' warning, use, and care instructions are followed.

For purposes of this warranty, "workmanship and material defects" is defined as defects arising from the manufacturing process, including loose or broken seams, malfunctioning hardware, and flawed fabrics. Defects do not encompass the results of ordinary wear and tear. In addition, "useful life" for purposes of this warranty, is defined as no more than two years, but may be shorter depending upon the type and frequency of use of the garment. Nonetheless, it is the responsibility of the user and the applicable department or agency to establish its own guidelines and standards for assessing and determining the useful life of its apparel and equipment.

Excluded from coverage under this warranty are the following:

- Damage resulting from abuse, misuse, or improper care;
- Damage resulting from extended wear and tear;
- Damage resulting from a customer modification; and
- Consequential, incidental, and/or indirect damages.

This warranty is the exclusive warranty provided by FireZero relating to the product and, to the maximum extent permitted by law, FireZero disclaims all other express or implied warranties, including without limitation warranties of merchantability and/or fitness for a particular purpose.

Email or call to file a warranty claim and obtain an RMA#.