



## Standard Practice for Chemical Protective Clothing Care and Maintenance Instructions<sup>1</sup>

This standard is issued under the fixed designation F 2061; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This practice describes the recommended minimum information to be conveyed by the manufacturer to users for the care and maintenance of chemical protective clothing. This practice does not cover use recommendations or design requirements. This practice excludes consideration of flame-resistant and thermal protective clothing.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

1.3 This practice recommends the minimum information needed to properly implement Sections 10 and 11 of Practice F 1461.

### 2. Referenced Documents

2.1 *ASTM Standards:*

F 1461 Practice for Chemical Protective Clothing Program<sup>2</sup>

2.2 *ANSI Standard:*

Z535.4 Standard for Product Safety Signs and Labels, 1991<sup>3</sup>

### 3. Terminology

3.1 *care, n*—procedures for cleaning, sterilization, decontamination, and storage of protective clothing.

3.2 *contamination, n*—the addition of an undesired chemical or substance to the protective clothing.

3.3 *decontamination, n*—removal or neutralization of a contaminant(s) from the protective clothing to the extent necessary for its next intended use or disposal, as in the removal of oil from clothing.

3.4 *degradation, n*—a deleterious change in one or more properties of a material.

3.5 *end user, n*—the entity or organization whose employees ultimately wear the protective clothing.

3.6 *maintenance, n*—procedures for inspection, repair, and removal from service of protective clothing.

3.7 *manufacturer, n*—the entity that provides the warranty for the protective clothing item.

3.8 *protective clothing, n*—any material or combination of materials used in an item of clothing for the purpose of isolating parts of the body from a potential chemical hazard.

3.8.1 *Discussion*—The primary purpose of protective clothing is to act as a barrier for the wearer to a hazard. However, the product may also offer protection as a barrier which prevents the body from being a source of contamination.

3.9 *supplier, n*—the entity or organization designated as an intermediary between the manufacturer and the end user.

3.9.1 *Discussion*—The supplier can be the manufacturer, if sales are made directly to the end user, or any organization which sells or leases protective clothing to the end user.

### 4. Significance and Use

4.1 This practice describes the minimum information that should be provided to the end user related to the wearing, care, and maintenance of chemical protective clothing designed and intended to be worn more than one time. Adherence to this practice allows written information to be provided to purchasers by means of labels, pamphlets, or other documents.

NOTE 1—Clothing intended for a single use will also be subject to some care and maintenance functions such as inspections, storage, and removal from service.

4.2 Not every element of this practice may be applicable to all chemical protective clothing components or configurations. It is the manufacturer's responsibility to determine which portions of this practice are applicable. It is the manufacturer's responsibility to determine those requirements of this practice which are applicable. The manufacturer or supplier may use any format or sequence of information that meets the minimum requirements of this practice. For informational requirements that are not applicable because of the nature of the product and intended use, the manufacturer or supplier may so indicate (for example, mark as not applicable).

4.3 All information related to wearing, decontamination, care, and maintenance shall be written in a manner so that the end user can readily understand the details. This should include the use of bold lettering, explicit warning terminology (for

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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 11.03.

<sup>3</sup> Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

example, signal words such as Danger, Warning, and Caution described in ANSI Z535.4), as well as the use of pictograms and illustrations.

## 5. Information Related to Care Instructions

**5.1 Address and Point of Contact Information**—The manufacturer shall provide an address, a contact telephone number, and means of electronic communication, as applicable, for questions concerning the proper use, limitations, decontamination, care, and maintenance of the protective clothing. Provision of a toll-free emergency number is encouraged but not required.

**5.2 Donning and Doffing Instructions**—The supplier shall deliver to the user, as specifically required by the manufacturer, all instructions to the end user on the proper donning and doffing of the protective clothing. This doffing information shall include the manufacturer's specific warnings about preventing cross-contamination of other personnel, equipment, and street clothing, as required.

### 5.3 Information Related to Cleaning:

**5.3.1 Cleaning Instructions**—The manufacturer shall provide specific instructions for the user to properly clean, launder, or refurbish the protective clothing. This information could include instructions for washing (for example, methods, type of washing machine, detergents, temperature, and so forth) and drying (for example, methods, temperature, limitations, and so forth). Warnings for limitations on the cleaning of protective clothing such as loss of physical integrity or other forms of degradation shall be included in this section. Additionally, methods to test for limitations of chemical protective clothing caused by cleaning or other maintenance shall be included in this section, as applicable.

### 5.3.2 Decontamination and Disinfection:

**5.3.2.1** The supplier shall deliver to the user, as required by the manufacturer, all specific instructions for removing various forms of contamination, if decontamination is recommended. These instructions shall include descriptions of acceptable processes, types of contaminants, means of handling contaminated or non-sterile garments, limitations of the processes, and all other information of importance to decontamination. This shall also include information necessary for decontamination while the protective clothing is being worn by the user, as appropriate, to allow for doffing without the hazard of contamination.

**5.3.2.2** The supplier shall deliver to the user, as required by the manufacturer, specific instructions for disinfection of protective clothing, as appropriate, for personal hygiene or other such needs.

**5.3.3 Storage**—The supplier shall deliver to the user, as required by the manufacturer, specific instructions for the end user to properly store the protective clothing before and after use. This information shall include any specific storage limitations relative to temperature, humidity, and atmospheric contaminants (for example, ozone and ultraviolet) or other storage limitations including folding. Information on end-of-life indications or expiration dates, or both, shall also be included in this section.

## 6. Information Related to Maintenance

**6.1 Inspection Instructions**—The supplier shall deliver to the user, as specifically required by the manufacturer, all instructions so that the user can perform a preliminary visual inspection of the protective clothing to ensure there are no observable defects. If appropriate, testing procedures and requirements (for example, pressure testing at specified intervals) shall also be included in this section.

**6.2 Repair**—The supplier shall deliver to the user, as specifically required by the manufacturer, all instructions about repairs, authorized by the manufacturer, that do not compromise the integrity or performance of the protective clothing. Special attention must be given to repair information and instructions that stipulate any appropriate tests which need to be conducted to ensure the protective clothing will perform properly.

### 6.3 Removal from Service:

**6.3.1** The manufacturer shall provide specific guidance for judging when an item of protective clothing shall be removed from service.

**6.3.2** The manufacturer shall provide specific guidance for disposal when such guidance is necessary.

## 7. Documentation

**7.1 Recordkeeping**—A history of the garment describing its care and maintenance shall be established.

**7.2 Safety Concerns and Other Related Information**—Other information of value to the end user could be included in this section. This can include precautions and limitations on uses of protective clothing (for example, DO NOT USE THIS PROTECTIVE CLOTHING IN FLAMMABLE ATMOSPHERES). Warranty information and disclaimers could also be included in this section.

## 8. Keywords

8.1 care and maintenance; chemical protective clothing; protective clothing

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