American National Standard for

Minimum Requirements for Workplace First Aid Kits and Supplies



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**ISEA Z308.1-2021**

**Revision of**

ANSI/ISEA Z308.1-2015

**American National Standard—**

**Minimum Requirements for**

**Workplace First Aid Kits and Supplies**

Secretariat

**International Safety Equipment Association**

Approved April 15, 2022 **American National Standards Institute, Inc.**

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**Foreword**

(This Foreword is not part of American National Standard ANSI/ISEA Z308.1-2021).

ANSI/ISEA Z308.1-2021 is the sixth revision of a voluntary industry consensus standard that was first published in 1978 and builds upon the initial objective to standardize first aid kits to ensure that items needed to treat the most common types of injuries and sudden illnesses encountered in the workplace are readily accessible and available.

This edition retains the kit classification (Class A or Class B) established in 2015 and includes several notable updates: A foil blanket has been added as a mandatory item for both kit classes. This was considered based on an assessment of similar international standards and in recognition of the multiple purposes that the item can serve during treatment of a workplace injury or illness. More specificity has been included for tourniquets to distinguish them from those types of bands used to draw blood, which are not as effective in preventing blood loss, as is intended. Similarly, the appendix includes greater guidance on a separately-packaged bleeding control kit. In addition, the standard includes more robust discussion to assist the employer in assessing risks, identifying potential hazards and selecting additional first aid supplies relevant to a particular application or work environment.

This revision was prepared by a task group of industry stakeholders who are recognized leaders in the research and development of first aid treatment items and training. The following companies were members of the group at the time of the approval of the standard:

Acme United Honeywell Safety and Productivity Solutions

Aero Healthcare Medique

American Red Cross National Safety Council

Certified Safety Manufacturing Safeguard Medical/Water-Jel

Cintas Corporation

Suggestions for improvement of this standard are welcome. They should be submitted to [standards@safetyequipment.org](mailto:standards@safetyequipment.org).

This standard was processed and approved using consensus procedures prescribed by the American National Standards Institute. The following organizations were contacted prior to the approval of this standard. Inclusion in this list does not necessarily imply that the organization concurred with the submittal of the proposed standard to ANSI.

|  |  |
| --- | --- |
| Clark Construction Group  Concurrent Technologies Corporation  Laborers’ Health & Safety Fund of North America  Liberty Electric Power  Marathon Petroleum | North Texas Municipal Water District  Sales Solutions, Inc.  Stony Brook University  Think Safe, Inc. |

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**American National Standard**

**Minimum Requirements for Workplace First Aid Kits and Supplies**

1. **Scope and Purpose** 
   1. This standard establishes minimum performance requirements for first aid kits and their supplies that are intended for use in various work environments. Classification of first aid kits, designating the assortment of items and quantity of each item is based the complexity of the work environment and level of hazards. First aid kit containers are classified by portability, ability to be mounted, resistance to water and corrosion and impact resistance.
   2. In this standard, imperial units of measurement are followed by an approximate SI equivalent in

parenthesis. In keeping with prevalent measurement and packaging norms for first aid products in the United States, only the imperial value shall be regarded as the requirement.

* 1. Unless otherwise stated, all values for measurement are to be considered nominal.

1. **Compliance and Effective Date** 
   1. First aid kits in compliance with this standard shall be classified either Class A or Class B, in accordance with Section 5.1 and shall contain the assortment of supplies in the quantities specified in Table
   2. First aid supplies included in a first aid kit shall meet the applicable performance requirements as specified

in Sections 6.1 through 6.21.

* 1. Containers used to house first aid supplies shall be designated Type I, Type II, Type III or Type IV in accordance with Section 5.2 and summarized in Table 2. Type IV containers shall meet the performance requirements of Section 5.2.5.
  2. First aid kits in compliance with this standard shall be labeled in accordance with Section 7.
  3. The effective date of this standard shall be six months from the date of ANSI approval

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1. **Definitions**

**Abrasion.** The most common type of open wound, characterized by skin that has been rubbed or scraped away.

**Antiseptic.** A substance that inhibits the growth of microorganisms on human skin.

**Bandage.** Material used to wrap or cover a part of the body; commonly used to hold a dressing or splint in place.

**Burn.** An injury to the skin or other body tissues caused by excessive heat, chemicals, electricity or radiation.

**CPR Breathing Barrier.** A personal safety device that prevents any contact between the mouth of the responder and victim’s mouth and/or nose that requires rescue breaths.

**Dressing.** Sterile pad used to cover an open wound, generally secured by a bandage.

**First Aid.** Immediate care given to a person with an injury or sudden illness until more advanced care can be obtained.

**First Aid Kit.** A container including a variety of medical supplies consistent with treating injuries and/or sudden illness.

**Foil Blanket:** A metalized plastic sheet which can retain body heat in emergency first aid situations, help prevent or treat hypothermia, act as a windbreaker, and can be worn as an emergency waterproof wrap.

**Roller Bandage**. A bandage made of gauze or gauze-like material that is wrapped around a body part, over a dressing, using overlapping turns until the dressing is covered.

**Splint.** A device used to immobilize body parts.

**Swab.** A single-use crushable, hermetically sealed ampoule with an applicator tip used to clean and/or apply a solution.

**Tourniquet (arterial).** A tight, wide strap designed to be effective in preventing blood loss in a severely injured limb (arms, legs) by compressing the tissue around the arteries and providing effective occlusion within 90 seconds or less

**Towelette.** A single-use, sealed, impregnated material used to clean and/or apply a solution.

**Wound.** An injury to the soft tissues.

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1. **Normative References**

The following standards contain provisions that, through reference in this text, constitute provisions of this American National Standard:

ASTM B117 *Standard Practice for Operating Salt Spray (fog) Apparatus,* 2019

ASTM E96/E96M *Standard Test Methods for Water Vapor Transmission of Materials*, 2016

Title 21, Code of Federal Regulations (CFR) Part 800.20, Patient examination gloves and surgeons' gloves; sample plans and test method for leakage defects; adulteration

Title 21, Code of Federal Regulations (CFR) Part 349, Ophthalmic Drug Products for Over-the Counter Human Use

United States Pharmacopeia – National Formulary (USP/NF), current edition

**5. Designation of First Aid Kits**

**5.1 Classes of First Aid Kits**

**5.1.1 Class A Kits**

Class A first aid kits are intended to provide a basic range of products to deal with most common types of injuries encountered in the workplace including: major wounds, minor wounds (cuts and abrasions), minor burns and eye injuries. First aid kits designated as Class A shall contain the assortment of compliant supplies in the quantities specified in Table 1. See Appendix C for workplace hazard assessment information.

**5.1.2 Class B Kits**

Class B kits are intended to provide broader range and quantity of supplies to deal with injuries encountered in more populated, complex and/or high-risk workplace environments. First aid kits designated as Class B shall contain the assortment of compliant supplies in the quantities specified in Table 1. See Appendix C for workplace hazard assessment information.

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**5.2 Types of First Aid Kit Containers**

**5.2.1 Type I**

Type I first aid kits are intended for use in stationary, indoor settings where the potential for damage of kit supplies due to environmental factors and rough handling is minimal. Type I first aid kits shall have a means for mounting in a fixed position and are generally not intended to be portable.

*NOTE: Typical applications for Type I first aid kits may include, but are not limited to, the following: general indoor use, an office setting or a manufacturing facility. First aid cabinets would generally fall into the Type I classification.*

**5.2.2 Type II**

Type II first aid kits are intended for portable use in indoor settings where the potential for damage of kit supplies due to environmental factors and rough handling is minimal.

*NOTE: Typical applications for Type II first aid kits may include, but are not limited to, the following: general indoor use, an office setting or a manufacturing facility.*

**5.2.3 Type III**

Type III first aid kits are intended for portable use in mobile, indoor and/or outdoor settings where the potential for damage of kit supplies due to environmental factors is not probable. Type III kits shall have a means to be mounted in a fixed position and shall have a water resistant seal.

*NOTE: Typical applications for Type III first aid kits may include general indoor use and sheltered outdoor use.*

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table 1. Classes of First Aid Kits and Required Supplies | | | | | | |
| **First Aid Supply** | **Minimum Quantity** | | **Minimum Size or Volume** | | **K Safety Part# Class A** | **K Safety Part# Class B** |
|  | **Class A Kits** | **Class B Kits** | **(US)** | **(metric)** |  |  |
| Adhesive Bandage | 16 | 50 | 1 x 3 in. | 2.5 x 7.5 cm | **737** | **737** |
| Adhesive Tape | 1 | 2 | 2.5 yd (total) | 2.3 m | **305** | **305** |
| Antibiotic Application | 10 | 25 | 1/57 oz | 0.5 g | **1004** | **1004** |
| Antiseptic | 10 | 50 | 1/57 oz | 0.5 g | **681** | **681** |
| Breathing Barrier | 1 | 1 | N/A | N/A | **4924** | **4924** |
| Burn Dressing (gel soaked) | 1 | 2 | 4 x 4 in. | 10 x 10 cm | **2653** | **2653** |
| Burn Treatment | 10 | 25 | 1/32 oz | 0.9 g | **2651** | **2652** |
| Cold Pack | 1 | 2 | 4 x 5 in. | 10 x 12.5 cm | **300** | **300** |
| Eye Covering, with means of attachment | 2 | 2 | 2.9 sq. in. | 19 sq. cm | **2700** | **2700** |
| Eye/Skin Wash | 1 | 0 | 1 fl oz total | 29.6 ml | **2717B** |  |
| 0 | 1 | 4 fl. oz total | 118.3 ml |  | **2716** |
| Foil Blanket | 1 | 1 | 52 x 84 in. | 132 x 213 cm | **1011** | **1011** |
| First Aid Guide | 1 | 1 | N/A | N/A | **2491** | **2491** |
| Hand Sanitizer | 10 | 20 | 1/32 oz | 0.9 g | **3042** | **3041** |
| Roller Bandage | 1 | 2 | 2 in. x 4 yd | 5 cm x 3.66 m | **802** | **802** |
|  | 1 | 4 in. x 4 yd | 10 cm x 3.66 m |  | **945** |
| Scissors | 1 | 1 | N/A | N/A | **1006** | **1006** |
| Splint | 0 | 1 | 4.0 x 24 in. | 10.2 x 61 cm |  | **1001** |
| Sterile pad | 2 | 4 | 3 x 3 in. | 7.5 x 7.5 cm | **832** | **832** |
| Tourniquet (C.A.T Style) | 0 | 1 | 1.5 in. (width) | 3.8 cm (width) |  | **56525** |
| Trauma pad | 2 | 4 | 5 x 9 in. | 12.7 x 22.9 cm | **925** | **925** |
| Triangular Bandage | 1 | 2 | 40 x 40 x 56 in. | 101x 101 x 142 cm | **918** | **918** |
| |  | | --- | |  | | |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- |
| **Table 2. Characteristics of Types of First Aid Kits** | | | | | | |
| Type | Use | Portable | Mountable | Water Resistant | Waterproof | Performance |
| I | Indoor |  | ● |  |  |  |
| II | Indoor | ● |  |  |  |  |
| III | Indoor/ Outdoor | ● | ● | ● |  |  |
| IV | Indoor/ Outdoor | ● | ● |  | ● | Section 5.2.5 |
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**5.2.4 Type IV**

Type IV first aid kits are intended for portable use in the mobile industries and/or outdoor settings where the potential for damage to kit supplies due to environmental factors and rough handling is significant. Type IV kits shall have a means to be mounted in a fixed position and shall meet the performance requirements of Section 5.2.5.

*NOTE: Typical applications for Type IV first aid kits may include, but are not limited to, the following: the transportation industry, the utility industry, the construction industry, and the armed forces.*

**5.2.5 Performance Requirements for Type IV Kits**

**5.2.5.1 Corrosion and Moisture Resistance**

Three kits shall be tested for corrosion and moisture resistance in accordance with ASTM B117 for a duration of 480 hours (20 days). The exterior surface of each sample shall be carefully blotted dry and the container shall be opened. Each sample shall be evaluated for ease of operation. The interior of the kit container shall be examined for evidence of moisture. Difficult operation or any evidence of moisture is sufficient cause for failure.

**5.2.5.2 Impact Resistance**

Test sample shall consist of a first aid container loaded with the appropriate weight as noted in Table 3.

|  |  |  |
| --- | --- | --- |
| Table 3. Drop Test Samples | | |
| Load (Lb) | Container Dimensions (see note) | |
| in. | cm. |
| 1 | 8.0 x 5.0 x 2.5 | 20.3 x 12.7 x 6.4 |
| 1.5 | 9.5 x 6.5 x 2.5 | 24.1 x 16.5 x 6.4 |
| 2 | 8.0 x 8.0 x 3.0 | 20.3 x 20.3 x 7.6 |
| 2.5 | 14.0 x 9.5 x 2.5 | 35.6 x 24.1 x 6.4 |
| Note: The container dimensions are intended to be representative of containers commonly identified as a numeric “unit container” and are approximate. | | |

Three samples shall be conditioned hot at 120F (49C) for a minimum of 2 hours, and three samples shall be conditioned cold at 0F (-18C) for a minimum of 2 hours.

**Continued next pg**

ISEA Z308.1-2021 **Continuation**

Each conditioned sample shall be subjected to the following drop test within 1.0 minute of removal from the conditioning environment. Each sample shall be dropped freely from a vertical height of 4 ft (1.20 m), as measured from the bottom of the kit sample, onto a hard, flat rigid surface such as concrete or a surface of equivalent hardness. Each sample shall be dropped once, each on a different corner of the case. For first aid kits that do not have corners, each sample shall be dropped on a different location. The kits shall be examined after impact to determine if the kit is opened or is capable of being opened. If any of the three test samples cannot be opened easily after impact or opens as a result of impact, the kit fails the test. END

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1. **Requirements for First Aid Supplies**

**6.1 General**

First aid supplies shall meet the individual performance requirements specified in Sections 6.2 through 6.21 and shall not be manufactured using natural latex rubber. Supplies shall comply with all applicable FDA regulations. The quantities, dimensions, or volume listed for each supply shall be considered the minimum for compliance with this standard. Larger-sized supplies that meet or exceed the performance requirements of Sections 6.2 thorough 6.21 shall be considered equivalent.

**6.2 Adhesive Bandage**

Each adhesive bandage shall consist of a non-adherent absorbent pad attached to the central area of a strip of adhesive material 3.0 in. ± 1/16 in. (76 mm ± 1.6 mm) by 1.0 in. ± 1/32 in. (25.4 mm ± 0.8 cm). The absorbent pad shall have an area between 0.65 and 1.0 sq. in. (420 - 645 sq. mm). The adhesive material shall have a moisture vapor transmission rate of at least 500 gm/m2 per 24 hours over its entire area in accordance with ASTM E96. Protective material shall cover the adhesive material and pad in such a manner as to prevent contamination of the pad, not impair the adhesiveness of the adhesive material and shall be easily removed. Each bandage shall be individually packaged, sealed and sterile.

*NOTE: Inclusion of a variety of adhesive bandage shapes and styles to properly cover wounds is strongly recommended. This includes, but is not limited to, strips in various sizes, fingertip bandages, knuckle bandages, large patch bandages, hydrocolloid bandages, and others.*

**6.3 Adhesive Tape**

Adhesive tape shall be at least 3/8 in. (9.5 mm) wide and a minimum of 2.5 yd (2.3 m) long and meet the applicable requirements for adhesive tape as defined in the current edition of the USP/NF.

*NOTE: Multiple rolls may be used to meet the minimum requirement of 2.5 yd (2.3 m) of tape.*

**6.4 Antibiotic Application**

Each antibiotic application shall meet the applicable requirements as defined in the current edition of the USP/NF. Each application shall be packaged in individual-use, non-reusable applications containing at least 1/57 oz (0.5 g).

**6.5 Antiseptic**

Each antiseptic shall meet all applicable FDA requirements and shall be contained in an individual-use, non-reusable application containing at least 1/57 oz (0.5 g) of antiseptic.

*NOTE: Commonly used applicators are swabs and towelettes. Spray containers containing the minimum number of 1/57 oz. (0.5 g) applications required for Class A or Class B kits are acceptable to meet this requirement.*

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**6.6 Burn Dressing (gel soaked)**

Burn dressings shall be a sterile gel-soaked pad made of a material that prevents fibers from becoming imbedded in the burn wound. Gel material shall be water-soluble. Each dressing size shall be at least 16 sq. in. (103.23 sq. cm) and shall be single use.

**6.7 Burn Treatment**

Each burn treatment shall be a water-soluble compound packaged in individual-use applications containing at least 1/32 oz (0.9 g).

*NOTE: Spray containers containing the minimum number of 1/32 oz (0.9 g) applications required for Class A or Class B kits are acceptable to meet this requirement. Burn treatment, as required here, is intended to address the treatment of minor burns.*

**6.8 Cold Pack**

Each cold pack shall be at least 4 x 5 in. (10 x 12.5 cm) in size and shall reach a temperature between 20 - 40F (-6 - 4C) within 10 seconds of activation and shall maintain this temperature for a period of at least 10 minutes. Cold packs shall activate under normal hand pressure and shall not leak under normal conditions of use.

**6.9 CPR Breathing Barrier**

The CPR breathing barrier shall be a single use disposable medical device listed with the U.S. Food and Drug Administration (FDA) and have a current valid 510 (k) with the purpose of delivering ventilations by a responder to a non-breathing victim (e.g., rescue breaths and CPR ventilations). The device shall provide protection from direct contact with bodily fluids by means of its construction as approved by the FDA. Each barrier shall be packaged in an easily opened container, clearly labeled with the name of the device, together with comprehensive instructions and/or illustrations for use.

*NOTE: When evaluating the workplace to determine the need for other items, consideration should be given to state or local governing authority related to breathing barriers and training on these devices.*

**6.10 Eye Covering**

Eye covering(s) shall have the ability to cover both eyes, an area of at least 2.9 sq. in. (19 sq. cm) per eye, and conform to each eye cavity. The covering shall have a thickness of at least 1/4 in. (0.64 cm) when not compressed. Each eye covering shall have at least the absorbency of absorbent gauze as defined by the current edition of the USP/NF. The eye covering shall be free of loose threads and raveled edges. Each eye covering shall be individually packaged, sealed, and sterile.

*NOTE: The minimum requirement for eye covering shall be two eye pads or a single covering for both eyes.*

**6.11 Eye/Skin Wash**

A sterile, isotonic, buffered solution as specified in FDA regulation 21 CFR 349 shall be contained in at least 0.5 fl. oz. (15 ml) individual-use applications.

*NOTE: Where the work environment dictates the possible exposure to corrosive materials or chemicals and the need for emergency flushing facilities, users should refer to ANSI/ISEA Z358.1 American National Standard for Emergency Eyewash and Shower Equipment*

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**6.12 First Aid Guide**

Guidance for immediate care given to a victim of injury or sudden illness until arrival of more advance care, if needed, shall be included in the kits. At a minimum, the guide shall include the areas outlined in Appendix A.

**6.13 Foil Blanket**

The foil blanket shall be a metalized plastic sheet, having a minimum size of 52 x84 in (132 x 213 cm) and shall be single use.

**6.14 Hand Sanitizer**

Hand sanitizers shall be water-soluble, alcohol-based and meet applicable FDA regulations.

*NOTE: Spray containers containing the minimum number of 1/32 oz. (0.9 g) applications required for Class A or Class B kits are acceptable to meet this requirement.*

**6.15 Medical Exam Gloves**

Gloves shall meet the requirements of FDA regulation 21 CFR 800.20 for medical grade gloves.

**6.16 Roller Bandage**

Each bandage shall be constructed from a material at least the equivalent strength of Type I USP 28-NF23 (44/36) gauze as defined by the current edition of USP/NF. Each bandage shall be individually packaged and sealed.

*NOTE: A conforming bandage that can stretch to at least 4 yd (3.65 m) may be used in place of roller bandage.*

**6.17 Scissors**

Scissors shall be autoclavable, at least 3.5 in. long (8.9 cm), capable of cutting through clothing, feature a blunt end to protect a person from accidental injury and of medical professional quality

**6.18 Splint**

Each splint shall be padded, made of malleable material and shall be at least 4.0 in. x 24 in. (10.2 cm x 61.0 cm).

**6.19 Sterile pad**

Each sterile pad shall be at least 3 x 3 in. (7.5 x 7.5 cm) in size and shall have at least the absorbency of absorbent gauze as defined by the current edition of the USP/NF. Each sterile pad shall be individually packaged, sealed and sterile.

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**6.20 Tourniquet (arterial)**

Each tourniquet shall be at least 1.5 in. (3.8 cm) wide and shall be effective on limb sizes ranging from 7 to 33 in (17.8 to 83.8 cm). Each tourniquet shall be individually packaged as a single-use device, with instructions.

*NOTE: A tourniquet used for blood drawing is insufficient to meet the criteria set forth. Common arterial tourniquets that meet this standard utilize a method such as a ratchet or a windlass to reach full occlusion. Application scenarios include trapped and open limb application as well as the ability to self-apply and apply to a victim.*

**6.21 Trauma Pad**

Each trauma pad shall be at least 45 sq. in. (290.33 sq cm) with no side smaller than 5 in. (12.7 sq cm) and shall have at least the absorbency of absorbent gauze as defined by the current edition of the USP/NF. Each trauma pad shall be individually packaged, sealed and sterile.

**6.22 Triangular Bandage**

Each bandage shall be made from muslin at least 60/48 weave or a material of equivalent mechanical strength. When unfolded, the outer dimensions of the bandage shall be at least 40 x 40 x 56 in. (101 x 101 x 142 cm).

**7. First Aid Kit Marking and Labeling**

**7.1** All labeling and markings shall be legible and permanent. Where adhesive labels are used, they shall not be easily removed.

**7.2** Each kit and/or location shall be visibly marked as a place where first aid supplies are located.

**7.3** Each complete first aid kit shall contain the information shown in Figure 1A or Figure 1B, written in at least 6 point font

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**Figure 1A. ANSI/ISEA Z308.1-2021, Class A Kit Label**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **ANSI/ISEA Z308.1-2021, Class A, Type I, II, III or IV First Aid Kit** This kit meets the ANSI/ISEA Z308.1-2021 standard as sold. It contains first aid products which meet performance specifications detailed in the standard at the below required minimum fill. It will continue to be compliant only when maintained with products that meet the standard at specified quantities. | | | | | | | |
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| **Required Minimum Fill** 16 Ea. Adhesive Bandage 1 x 3 in. (2.5 x 7.5 cm) 1 Ea. Adhesive Tape 2.5 yd (2.3 m), total 10 Ea. Antibiotic Application 1/57 oz (0.5 g) 10 Ea. Antiseptic 1/57 oz (0.5 g) 1 Ea. Burn Dressing (gel soaked) 4 x 4 in.(10 x 10 cm) 10 Ea. Burn Treatment 1/32 oz (0.9 g) 1 Ea. Cold Pack 4 x 5 in. (10 x 12.5 cm) 1 Ea. CPR Breathing Barrier 2 Ea. Eye Covering w/ means of attachment 2.9 sq. in. (19 sq cm) | | | | 1 Ea. Eye/Skin Wash 1 fl oz (29.6 ml) total 1 Ea. First Aid Guide 1 Ea. Foil Blanket 52 x 84 in. (132 x 213 cm) 10 Ea. Hand Sanitizer 1/32 oz (0.9 g) 2 pr Medical Exam Gloves 1 Ea. Roller Bandage 2 in. x 4 yd (5 cm x 3.66 m) 1 Ea. Scissors 2 Ea. Sterile pad 3 x 3 in. (7.5 x 7.5 cm) 2 Ea. Trauma pad 5 x 9 in. (12.7 x 22.9 cm) 1 Ea. Triangular Bandage 40 x 40 x 56 in. (101 x 101 x 142 cm) | | | |  |
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| The described kit should be considered adequate for a workplace only when a hazard assessment  of the work environment has been competed by competent personnel. For a variety of operations, employers may find that additional first aid supplies and kits are needed. Kits should be inspected frequently to ensure the completeness and usability of all first aid supplies. Any supply beyond its marked expiration date should be discarded and replaced. | | | | | | | |  |
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**Figure 1B. ANSI/ISEA Z308.1-2021, Class B Kit Label**

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| **ANSI/ISEA Z308.1-2021, Class B, Type I, II, III or IV First Aid Kit** This kit meets the ANSI/ISEA Z308.1-2021 standard as sold. It contains first aid products which meet performance specifications detailed in the standard at the below required minimum fill. It will continue to be compliant only when maintained with products that meet the standard at specified quantities. | |
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| **Required Minimum Fill** 50 Ea. Adhesive Bandage 1 x 3 in. (2.5 x 7.5 cm) 2 Ea. Adhesive Tape 2.5 yd (2.3 m) total 25 Ea. Antibiotic Application 1/57 oz (0.5 g) 50 Ea. Antiseptic 1/57 oz (0.5 g) 2 Ea. Burn Dressing (gel soaked) 4 x 4 in. (10 x 10 cm) 25 Ea. Burn Treatment1/32 oz. (0.9 g) 2 Ea. Cold Pack 4 x 5 in. (10 x 12.5 cm) 1 Ea. CPR Breathing Barrier 2 Ea. Eye Covering w/ means of attachment 2.9 sq. in. (19 sq cm) 1 Ea. Eye/Skin Wash 4 fl. oz. total (118.3 ml) | 1 Ea. First Aid Guide 1 Ea. Foil Blanket 52 x 84 in. (132 x 213 cm) 20 Ea. Hand Sanitizer 1/32 oz (0.9 g) 4 pr Medical Exam Gloves 2 Ea. Roller Bandage 2 in. x 4 yd (5 cm x 3.66 m) 1 Ea. Roller Bandage 4 in. x 4 yd (10 cm x 3.66 m) 1 Ea. Scissors 1 Ea. Splint 4 x 24 in (10.2 x 61 cm) 4 Ea. Sterile pad 3 x 3 in. (7.5 x 7.5 cm) 1 Ea.Tourniquet (C.A.T) Style  4 Ea. Trauma pad 5 x 9 in. (12.7 x 22.9 cm) 2 Ea. Triangular Bandage 40 x 40 x 56 in. (101 x 101 x 142 cm) |  |
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| The described kit should be considered adequate for a workplace only when a hazard assessment of  the work environment has been competed by. competent personnel. For a variety of operations, employers may find that additional first aid supplies and kits are needed. Kits should be inspected frequently to ensure the completeness and usability of all first aid supplies. Any supply beyond its marked expiration date should be discarded and replaced. | |  |
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**Appendix A (normative)**

**First Aid Guide**

The inclusion of a first aid guide in a first aid kit is required per Section 6 of this standard. At a minimum, the information below shall be included in the guide. The manner in which such information is conveyed is left to the discretion of the manufacturer.

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| **First Aid Guide Areas** |
| Emergency steps of assessing the scene and person, calling 9-1-1 or location emergency number |
| Establishing responsiveness |
| Establishing and maintaining an open and clear airway |
| Performing rescue breathing |
| Treating airway obstruction in a conscious victim |
| Performing CPR |
| Using an AED |
| Recognizing the signs and symptoms of shock and providing first aid for shock from illness or injury |
| Assessing and treating a victim who has an unexplained change in level of consciousness or  sudden illness |
| Methods of controlling bleeding, including direct pressure and tourniquet |
| Poisoning |
| **Responding to Medical Emergencies** Chest pain Stroke Breathing problems Anaphylactic shock and allergic reaction Hypoglycemia in diabetics taking insulin Seizures Reduced level of consciousness Impaled object |
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| **Wounds** Assessment of and first aid wounds including abrasions, cuts, lacerations, punctures, avulsions, amputations and crush injuries Principles of wound care including infections precautions Principles of body substance isolation, universal precautions and use of PPE |  |
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| **Burns** Assessment of the severity of a burn, including extent (size) and depth Recognizing whether a burn is thermal, electrical or chemical, or caused by sun exposure and the appropriate first aid |  |
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| **Temperature extremes** Exposure to cold, including frostbite and hypothermia Exposure to heat, including heat cramps, heat exhaustion and heat stroke |  |
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| **Musculoskeletal injuries** Fractures Sprains, strains, contusions and cramps Head, neck, back and spinal injuries |  |
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| Eye injuries |  |
| **Mouth and teeth injuries** Oral injuries, lip and tongue injuries, broken and missing teeth |  |
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| **Bites and stings** Human and animal bites Bites and stings from insects; instruction in first aid treatment for anaphylaxis |  |
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**Appendix B (informative)**

**Guidance on Bleeding Control Kits and Other First Aid Supplies, Ongoing Maintenance, and Unitized Kits**

**B.1 Bleeding Control Kits**

Careful consideration should be given to providing uniquely packaged and designated bleed control kits. These kits contain more advanced first aid supplies to immediately treat victims with life-threatening external bleeding and such unique packaging will enable a first aid provider to readily access supplies.

Essential bleed control items include:

• Chest seal

• Compression bandage

• Hemostatic bandages

• Thermal blanket

• Tourniquet

***Related kit contents include:***

• Gloves

• Permanent marker

• Shears

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**B.2 Supplemental First Aid Supplies for Consideration – Applicable Environments**

Each work environment is unique. Accordingly, it is expected that a first aid kit containing the minimum required first aid supplies will be augmented with additional items or additional quantities of required supplies based upon the specific hazards existing in a workplace environment. The selection of such items should be based on the recommendation and consultation of a person or persons competent in first aid and cognizant of the hazards found in the workplace. Federal, state and local requirements should be consulted, where appropriate. Augment kits with the following first aid supplies, as applicable:

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| --- | --- |
| **FIRST AID SUPPLY** | **PURPOSE** |
| Adhesive bandages, assorted sizes and styles | Effective cover wounds of varying sizes located  on various parts of the body (knuckle, fingertip) |
| Analgesics (oral and/or topical)/anti-inflammatory | Pain management; swelling control |
| Antihistamine (non-drowsy) | Allergic reactions |
| Aspirin, low-dose | Used to treat suspected heart attack |
| Electrolyte replacement | Heat-stress related injuries |
| Glucose replacement | Diabetic or hypoglycemic episodes |
| Face mask, 3-ply, Level 1 | Used for pandemic precaution |
| Hemostatic agent/dressing | For individuals with compromised clotting or uncontrollable bleeding |
| Hydrocortisone | Itchiness and skin-related reactions including rashes |
| Splinter remover | Removing splinters |
| Surface disinfecting wipes (EPA approved) | Helps to disinfect surfaces that may contain harmful viruses such as the common cold, flu, or coronavirus |
| Thermometer, disposable | Able to determine the risk of transferring infectious diseases from worker-to-worker |

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**B.3 Ongoing Maintenance of First Aid Kits**

1. First aid kits should be inspected at least monthly or following a first aid incident when product is used. Frequent inspection is recommended to ensure the completeness and usable condition of supplies to maintain compliance with this standard. Any supply beyond its marked expiration date should be replaced.
2. Cabinet surfaces should be disinfected regularly, during restocking or following any first aid incident when product is used. Dependent on workplace environment, cabinet surfaces may need to be cleaned and disinfected more frequently.
3. It is recommended that product is easily identified and well organized.

**B.4 Unitized Kits**

Unitized first aid kits contain first aid supplies arranged in uniform-sized boxes to help simplify the organization and restocking of the kit. It is recommended that products are grouped together in like-categories and color-coded. First aid supplies can be categorized as such:

• Antiseptics

• Bandages

• Burn Treatment

• Eye Care

• Personal Protective Equipment (PPE)

• Miscellaneous

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**Appendix C (informative)**

**Guidance on Selection of Contents for First Aid Kits**

**C.1 Workplace Hazard Assessment**

Conduct a workplace hazard assessment to first decide if a Class A or Class B minimum fill best fits the type of hazards at your facility. There are many ways to conduct a workplace hazard assessment, but here are three guiding questions that will help complete this task to determine which supplies to augment your first aid kits with:

1. What are the hazards that exist?

2. What kinds of injuries have occurred or could occur in relation to these hazards?

3. What types of first aid supplies are needed to treat these injuries?

All workplaces are unique, and therefore making additions to the Class A or Class B minimum requirements should take place to reflect the unique hazards and injuries that could occur in the workplace.

Field (mobile) workers shall also have access to first aid supplies whether they are on a remote worksite or in a work vehicle.

**C.2 Quantity and Location of First Aid Kits**

When assessing risk, proximity of first aid supplies in relation to each worker is imperative. It is inadequate to base first aid kits and cabinets solely on the number of people in a work environment (i.e. 10-Person, 25-Person, 50 Person or 100-Person First Aid Kits).

First aid kits contain a variety of supplies to respond to many kinds of injuries, including minor injuries or more serious bleeding incidents. There are a variety of recommendations pertaining to response times for a first aid incident in the workplace that can provide guidance in a workplace’s decision on placement of first aid kits and ensuring they can be accessed quickly in an emergency. For example, an OSHA Letter of Interpretation from January 16th, 2007 addresses the definition of near proximity to first aid as 3-4 minutes from the hazards and employees that could be impacted by those hazards. Additionally, the Hartford Consensus, published by the American College of Surgeons in 2016, states that victims with life-threatening external bleeding must be treated immediately at the point of wounding. These recommendations, and others, are applicable when considering the distance between an employee and the first aid kit they can access to first aid supplies.

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**C.3 Selecting Additional Products for the Work Environment**

1. *Oral Over-the-Counter (OTC) medications*

Over-the-counter medications are non-prescription medications that can be provided by the employer to address common symptoms such as pain/inflammation, headaches, upset stomach, and cold and sinus symptoms, and others. According to the FDA definition of over-the counter medications, these are safe and effective when the directions on the label are followed.

***Having OTC medications appropriate for workplace use as part of a first aid program may provide benefits such as decreased worker loss time, increased employee productivity and overall workplace safety***.

***Guidelines for providing OTC medications in workplace first aid kits:***

1. The products should be individually packaged in the proper doses, tamper evident, with drug facts printed on each packet so employees can make an informed decision about the product they are selecting. This type of packaging may also help reduce the spread of germs and disease that can happen with consumer-designed products in bottles.
2. OTCs that contain any active ingredients that cause drowsiness are not recommended.

**B. Seasonal Items**

Conducting a workplace hazard assessment may reveal that workers are exposed to the elements (throughout the year, or during certain months), resulting in common injuries and ailments such as allergic reactions, insect stings and bites, poison ivy skin rashes, heat stress and more. In this case, employers should add products that address these first aid concerns to workplace first aid kits. For example: OTCs containing antihistamines should be considered to treat seasonal allergies and insect stings.