Sperian Emergency Eyewash

WORLD LEADER IN EMERGENCY EYE CARE
Sperian® is the new name of Fend-all®. Since 1950, Sperian Protection and its predecessors have manufactured and distributed leading safety and health products worldwide. Sperian is the well-respected market leader in portable eyewash stations and is recognized for its wide range of emergency eyewash products including the first 100% sterile sealed-fluid cartridge and 100% sterile delivery station, the first self-contained gravity-fed station and the first heated self-contained gravity-fed station.

When Seconds Count, Portable Matters
The need for immediate flushing requires the installation of emergency eyewash devices to be installed in accessible locations that require no more than 10 SECONDS to reach. For a strong acid or strong caustic, the eyewash should be immediately adjacent to the hazard. Sperian self-contained, portable eyewash stations require no plumbing for easy and affordable placement near any workplace hazard, and deliver a sterile or buffered saline solution superior to tap water for emergency eye care. Ordinary tap water, used in plumbed or some tank-type eyewash devices, may contain harmful bacteria or contaminants that can cause additional eye damage. A sterile or buffered saline solution is the most effective flushing fluid for emergency first aid.

Fendall 2000™
Introducing the new Fendall 2000 100% Sterile Emergency Eyewash System — the innovation you expect from Sperian. We’ve listened to our end-users and have built an eyewash station with all of the features and benefits that you would expect in a state-of-the-art, portable emergency eyewash station from Sperian. Our ingenious design delivers a steady soft ribbon of 100% sterile saline from a 100% sterile delivery system, minimizing the risk of further injury. We’ve added comfort features, ergonomic design, and an alarm system that together ensure compliance with the full 15-minute ANSI flushing requirement.

www.fendall.com

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**WARNING!** Sperian equipment should only be used in conjunction with the manufacturer’s instructions. Failure to follow such instructions could result in serious injury including diminution or loss of vision.
Primary Emergency Eyewash Devices

15-Minute Flush Time
- Meets ANSI standard
- 24-month maintenance*

Sterile Sealed Fluid Cartridge

NEW! Fendall 2000™
- Delivers 100% sterile saline from a 100% sterile delivery system
- 24-month cartridge life* saves time and money on replacements and inspections
- Built-in alarm system that sounds when the unit has been activated and again when the injured individual has completed the required 15-minute flush
- Deactivation button that allows for fast and easy maintenance without false activation
- Arm/headrest provides user comfort, enabling better compliance
- Integrated waste containment to prevent spills and is easily emptied
- Sleek assembly that fits nearly anywhere
- Self-contained, with no plumbing required, makes this highly portable
- Easy-view side windows to check sterile solution expiration date and key contact information
- Comes complete with emergency eyewash station sign, mounting bracket, installation DVD, tamper seal, and 1-year warranty. Sterile saline solution cartridge sold separately
- Meets ANSI Z358.1-2004 15-minute flush requirement for primary eyewash stations
- Shelf life determined by date of manufacture. Always check product expiration date

Item # Description
32-002000-0000 Sterile Eyewash Station (English)
32-002000-0070 Sterile Eyewash Station (Spanish)
32-ST2050-0000 Sterile Saline Refill Cartridge For Fendall 2000

Factory Sealed Fluid Cartridges — No Mixing or Measuring
Fendall Pure Flow 1000’s sealed cartridge design eliminates mixing, measuring, and the opportunity for airborne particles or microorganisms to contaminate the fluid prior to use.
- Easy installation. No plumbing required. Can be easily and affordably placed near most workplace hazards with single bracket mounting device or transported with optional universal cart or stand
- Factory-sealed fluid cartridges eliminate mixing, measuring, and the opportunity for airborne particles or microorganisms to contaminate the fluid prior to use
- Easy to activate sure-grip handle provides instant, simple activation. When not in use, cover keeps dirt and other debris from collecting in the basin and nozzle area
- Unique nozzle design delivers a soft “ribbon” of our buffered saline solution
- Permits thorough flushing with a constant flow rate and stream height that provides a gpm for entire 15-minute cycle required by ANSI Z358.1-2004
- Captures waste fluid to eliminate spill hazards and simplify fluid disposal
- Integral valve at bottom of unit allows easy draining of reservoir after use
- 24-month cartridge life*, at least four times longer than other primary self-contained eyewash devices, saves time and money on replacements and inspections. Cartridges sold separately
- Cartridges remain sealed until activated. Expiration date is included on activation straps – and cartridge replacement takes less than five minutes

Item # Description
32-001000-0000 Eyewash Station (English)
32-001000-0022 Eyewash Station (French Canadian)
32-001000-0070 Eyewash Station (Mexican Spanish)
32-001050-0000 Saline Refill Cartridges for Fendall Pure Flow 1000
32-ST1050-0000 Sterile Saline Refill Cartridges for Fendall Pure Flow 1000
32-001052-0000 High Humidity Saline Refill Cartridges for Fendall Pure Flow 1000

Sealed Fluid Cartridge with Sterile Option

Fendall Pure Flow 1000®
- Easy installation. No plumbing required. Can be easily and affordably placed near most workplace hazards with single bracket mounting device or transported with optional universal cart or stand
- Factory-sealed fluid cartridges eliminate mixing, measuring, and the opportunity for airborne particles or microorganisms to contaminate the fluid prior to use
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32-001052-0000 High Humidity Saline Refill Cartridges for Fendall Pure Flow 1000

High Humidity Sealed Fluid Cartridges
This adapter helps prevent Fendall Pure Flow 1000 saline cartridges from bowing or from deterioration caused by uncontrolled humid environmental conditions. It allows the Fendall Pure Flow 1000 unit and its cardboard saline cartridges to withstand high humidity environments that cannot be easily regulated.
- Factory sealed for environments that cannot be easily regulated.
- This adapter helps prevent Fendall Pure Flow 1000 saline cartridges from bowing or from deterioration caused by uncontrolled humid environmental conditions. It allows the Fendall Pure Flow 1000 unit and its cardboard saline cartridges to withstand high humidity environments that cannot be easily regulated.

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EYE & FACE PROTECTION

Primary Emergency Eyewash Devices

15-Minute Flush Time

- Meets ANSI Standard
- 3-6 month maintenance cycle

Refillable

Fendall Porta Stream® II + III

- Easy installation with no plumbing required. Can be easily and affordably placed near most workplace hazards with single bracket mounting device or transported with optional universal cart or universal stand. Molded handle accepts hanging bracket for vertical or horizontal surface installation
- Versatile flushing fluid options include Sperian Saline — a buffered, saline solution superior to tap water for emergency eye care, and Sperian Water Additive
- Large 36 gallon (60.5L) capacity permits thorough flushing by providing 0.4 gpm over the entire 15-minute flushing period required by ANSI Z358.1-2004
- Nozzles cover a wide area around the eyes
- Properly installed, the system may be safely leaned upon during use
- Large fill hole/lockable fill cap to simplify refilling and cleaning. Reduces risk of possible tampering
- Easy-to-use design features simple, highly visible operating instructions on the unit itself
- Saline Concentrate requires 6-month maintenance cycle. Water Additive requires a 4-month maintenance cycle

Item # Description
32-000200-0000 Eyewash Station (English) with Saline Concentrate
32-000200-0022 Eyewash Station (French) with Saline Concentrate
32-000200-0070 Eyewash Station (Mexican Spanish) with Saline Concentrate

Fendall Porta Stream® I

- Does not meet ANSI Z358.1-2004 15-minute flushing requirement
- Sperian Saline cartridges, once installed, require a 6-month maintenance cycle. Unopened cartridges have a shelf life of up to 24 months*
- Easy-to-use design features simple, highly visible operating instructions
- Nozzle strap is easily removed for hands-free flushing, leaving hands free to hold eyelids open
- Highly portable system may be easily wall or table mounted
- Does not meet ANSI Z358.1-2004 15-minute flushing requirement

Item # Description
32-000130-0000 Eyewash Station (English) with Water Additive
32-000100-0022 Eyewash Station (French) with Saline Concentrate
32-000100-0000 Eyewash Station (English) with Saline Concentrate
32-000400-0070 Eyewash Station (Mexican Spanish) with Saline Concentrate
32-000400-0022 Eyewash Station (French Canadian) with Saline Concentrate
32-000400-0000 Eyewash Station (English) with Saline Concentrate

Secunder Emergency Eyewash Devices

Secondary Eyewash Devices

- Do not meet the ANSI Z358.1-2004 Standard for 15-minute flushing requirements
- Intended to support, not replace, primary plumbed or self-contained units.

Fendall Porta Stream I and Fendall Flash Flood units are suitable for nuisance situations such as dust or particle flushing where a 15-minute flushing device is not a requirement.

Secondary Emergency Eyewash Devices

6-Minute Flush Time

- Great for dust or particles
- 3-6 month maintenance cycle

Refillable

Fendall Porta Stream® I + III

- Delivers 6 minutes of uninterrupted, hands-free flushing — without costly plumbing
- Easy installation with no plumbing required. Can be easily and affordably placed near most workplace hazards with single bracket mounting device or transported with optional universal cart or universal stand. Molded handle accepts hanging bracket for vertical or horizontal surface installation
- Supplied with either 70 oz. (2.07L) of Saline Concentrate which, when mixed with tap water, provides 6 gallons (22.7L) of buffered, saline solution superior to tap water for emergency eye care solution, or 8 oz. of Water Additive, enough for 14-16 gallons of water
- Nozzle strap is easily removed for hands-free flushing, leaving hands free to hold eyelids open
- Low maintenance with one-piece, molded construction and no moving parts
- Large fill hole simplifies refilling and cleaning
- Easy-to-use design features simple, highly visible operating instructions on the unit itself
- Sperian Saline cartridges, once installed, require a 6-month maintenance cycle. Unopened cartridges have an shelf life of up to 24 months*
- Does not meet ANSI Z358.1-2004 15-minute flushing requirement

Item # Description
32-000100-0000 Eyewash Station (English) with Saline Concentrate
32-000100-0022 Eyewash Station (French) with Saline Concentrate
32-000100-0070 Eyewash Station (Spanish) with Saline Concentrate
32-000115-0000 Eyewash Station (English) with Water Additive
32-000130-0000 Eyewash Station (English) with Water Additive
32-000200-0000 Eyewash Station (English) with Saline Concentrate
32-000200-0022 Eyewash Station (French Canadian) with Saline Concentrate
32-000200-0070 Eyewash Station (Mexican Spanish) with Saline Concentrate

3-Minute Flush Time per Cartridge

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*Shelf life determined by date of manufacture. Always check product expiration date

**Time frame may vary due to manufacturer of eyewash stations.

Secondary Emergency Eyewash Devices

- Do not meet the ANSI Z358.1-2004 Standard for 15-minute flushing requirements
- Intended to support, not replace, primary plumbed or self-contained units.

Fendall Porta Stream I and Fendall Flash Flood units are suitable for nuisance situations such as dust or particle flushing where a 15-minute flushing device is not a requirement.

Secondary Emergency Eyewash Devices

6-Minute Flush Time

- Great for dust or particles
- 3-6 month maintenance cycle

Refillable

Fendall Porta Stream® I + III

- Delivers 6 minutes of uninterrupted, hands-free flushing — without costly plumbing
- Easy installation with no plumbing required. Can be easily and affordably placed near most workplace hazards with single bracket mounting device or transported with optional universal cart or universal stand. Molded handle accepts hanging bracket for vertical or horizontal surface installation
- Supplied with either 70 oz. (2.07L) of Saline Concentrate which, when mixed with tap water, provides 6 gallons (22.7L) of buffered, saline solution superior to tap water for emergency eye care solution, or 8 oz. of Water Additive, enough for 14-16 gallons of water
- Nozzle strap is easily removed for hands-free flushing, leaving hands free to hold eyelids open
- Low maintenance with one-piece, molded construction and no moving parts
- Large fill hole simplifies refilling and cleaning
- Easy-to-use design features simple, highly visible operating instructions on the unit itself
- Sperian Saline cartridges, once installed, require a 6-month maintenance cycle. Unopened cartridges have an shelf life of up to 24 months*
- Does not meet ANSI Z358.1-2004 15-minute flushing requirement

Item # Description
32-000100-0000 Eyewash Station (English) with Saline Concentrate
32-000100-0022 Eyewash Station (French) with Saline Concentrate
32-000100-0070 Eyewash Station (Spanish) with Saline Concentrate
32-000115-0000 Eyewash Station (English) with Water Additive
32-000130-0000 Eyewash Station (English) with Water Additive
32-000200-0000 Eyewash Station (English) with Saline Concentrate
32-000200-0022 Eyewash Station (French Canadian) with Saline Concentrate
32-000200-0070 Eyewash Station (Mexican Spanish) with Saline Concentrate

3-Minute Flush Time per Cartridge

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**Time frame may vary due to manufacturer of eyewash stations.
Emergency Decontamination Shower

Operational in Less Than 2 Minutes
Provides decontamination facilities in accordance with OSHA standard 1910.120 without distracting emergency responders from their primary task.

Suitable for Emergency Response Vehicles
The Sperian® Emergency Decontamination Shower is ideal for a variety of locations, including construction sites, loading docks, agricultural locations, and other emergency response areas.

Emergency Decontamination Shower
• Quick deployment—with one person—fully operational in less than two minutes
• Assures users of thorough decontamination with 5 gallon per minute flow rate at 40 psi water supply pressure
• Accommodates emergency responder in full chemical gear with SCBA
• Over 120-gallon capacity provides collection for up to 30 minutes of shower use
• Connects to standard garden hose
• Fully deployed and operational within ten seconds of turning on the water
• Entire system can be stored in convenient carrying bags on virtually any response vehicle (requires ~5 cu. ft. of storage each)
• Optional drench hose can be used to assist the emergency responder or victim with decontamination or drenching; otherwise can be used with a standard garden hose

Personal Eyewash Products

Personal Eyewash Bottles
• Bottles contain a buffered, saline solution that is sterile and superior to tap water for emergency eye care
• Blow-off-seal bottles are tamper resistant, yet easily removed in an emergency
• Extended-flow nozzles (16 and 32 oz. containers) provide longer flow than conventional 16 and 32 oz. containers
• User-controlled volume delivery (1, 4, 8 oz. products). Delivers drops or an irrigating stream of solution, depending on the squeeze pressure applied to the bottle
• Ensured quality and lasting value with FDA-grade polyethylene bottles featuring lot numbers and expiration dates
• Does not meet ANSI Z258.1-2004 15-minute flushing requirement

Saline Wall Stations
• Sealed, sterile, bottles contain Sperian Saline—a buffered, saline solution superior to tap water for emergency eye care
• Blow-off-seal bottles are tamper resistant, yet easily removed in an emergency
• Extended flow opening provides longer flow rate than conventional bottles
• Durable, open face design holds bottles firmly in place with easy access to bottles in an emergency
• Maintains pressure and flow regardless of orientation
• User-controlled volume delivery (1, 4, 8 oz. products). Delivers drops or an irrigating stream of solution, depending on the squeeze pressure applied to the bottle
• Ensured quality and lasting value with FDA-grade polyethylene bottles featuring lot numbers and expiration dates
• Does not meet ANSI Z258.1-2004 15-minute flushing requirement

Keep Bottles Near Your Workers
Durable Wall Stations provide immediate flushing until the injured person can be helped to a primary emergency eyewash device. They offer high visibility in a hazard area and are readily available for emergency flushing and decontamination of the eyes, face and body.
Emergency Eyewash Refills

Why is a sterile eyewash solution better?
- Sterile solution offers unmatched safety.
- When compared to tap water, sterile solution offers the best protection from contaminants and bacteria that could lead to secondary trauma to an injured eye.
- Sterile solution reduces the risk of potential liability if eye injury from flushing with contaminated water occurs.

**Fendall 2000™ Sterile Saline Cartridge**
- Up to 24 month* cartridge life
- 6.87 gallons (26L) total
- Sterile, buffered, pH balanced, saline solution
- Cartridge change takes less than 5 minutes

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<th>Item #</th>
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<tr>
<td>32-ST2050-0000</td>
<td>Sterile Saline Refill Cartridge for Fendall 2000</td>
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</table>

*Shelf life determined by date of manufacture. Always check product expiration date.

**Fendall Pure Flow 1000® Sterile Saline Cartridges**
- Up to 24 month* cartridge life
- 3.5 gallon (13.2L) each, 7 gallon (26.4L) total
- Sterile, buffered, pH balanced, saline solution
- Cartridge change takes less than 5 minutes

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<td>32-ST1050-0000</td>
<td>Sterile Saline Refill Cartridges for Fendall Pure Flow 1000</td>
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</table>

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**Fendall Pure Flow 1000 Saline Cartridges**
- Up to 24 month* cartridge life
- 3.5 gallon (13.2L) each, 7 gallon (26.4L) total
- Preserved, buffered, pH balanced, saline solution
- Cartridge change takes less than 5 minutes

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<td>32-001050-0000</td>
<td>Saline Refill Cartridges for Fendall Pure Flow 1000</td>
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*Shelf life determined by date of manufacture. Always check product expiration date.

**High Humidity Adaptors for Fendall Pure Flow 1000 Saline Cartridges**
- No extra assembly necessary, comes attached to the cartridges
- Designed for units located in high humidity moisture levels of 80% and higher

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<td>32-001052-0000</td>
<td>Sterile Saline Refill Cartridges for Fendall Pure Flow 1000</td>
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*Shelf life determined by date of manufacture. Always check product expiration date.

**Fendall Flash Flood® Cartridge**
- Up to 24 month* unopened cartridge shelf life (6 months activated)
- Preserved, buffered, pH balanced, saline solution
- Cartridge change takes less than 1 minute

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<tr>
<td>32-009010-0000</td>
<td>Saline Refill Cartridges for Fendall Flash Flood</td>
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**Saline Solution**
- Use directly from container (1 gal, 3.8L) to refill the eyewash device. No mixing or measuring required
- Preserved, buffered, pH balanced, saline solution

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<td>32-009012-0000</td>
<td>Saline Solution (Premixed) for Use with Fendall Porta Stream I, II, III</td>
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*Shelf life determined by date of manufacture. Always check product expiration date.

**Concentrate**
- Mix with clean, potable water (10:1 ratio)
- Creates a preserved, buffered, saline solution

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<td>32-009130-0000</td>
<td>Saline Concentrate for Use with Fendall Porta Stream I</td>
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<tr>
<td>32-009111-0000</td>
<td>Saline Concentrate for Use with Fendall Porta Stream II, III</td>
</tr>
</tbody>
</table>

*Shelf life determined by date of manufacture. Always check product expiration date.

**Water Additive**
- Mix with clean, potable water
- One bottle (8 oz) suitable for 14-16 gallons
- 30-month* shelf life (unopened)
- Sold in cases of four with tamper evident seals

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<tr>
<td>32-001100-0000</td>
<td>Water Additive for Use with All Portable Devices</td>
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*Shelf life determined by date of manufacture. Always check product expiration date.

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## Emergency Eyewash Accessories

### Dust Cover
- Protects eyewash basin from dirt, dust and debris
- Attaches to the eyewash pull strap
- Cover and pull strap are removed in one motion

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<tr>
<td>32-001015-0000</td>
<td>Dust Cover for Fendall Porta Stream I, II</td>
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</table>

### Reflective Cover
- Protective cover helps maintain fluid temperature
- Use in environments of high solar energy
- Flap and pull strap are removed in one motion

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<tr>
<td>32-003102-0000</td>
<td>Reflective Cover for Use with Fendall Porta Stream II</td>
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<tr>
<td>32-003101-0000</td>
<td>Reflective Cover for Use with Fendall Porta Stream I</td>
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### Fluid Disposal Cart
- Allows easy collection of used flushing fluid
- Concave top surface with center drain
- Dual wheels, molded handle for easy portability

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<tr>
<td>32-000511-0000</td>
<td>Disposal Cart for Use with Fendall Porta Stream I, II, III, and Fendall Flash Flood</td>
</tr>
</tbody>
</table>

### Universal Eyewash Cleaning Kit
- For use with all tank-type, eyewash stations
- Allows thorough eyewash device cleaning
- Clean prior to refilling, to remove contamination
- Helps remove contaminants from tank interior

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<td>32-001018-0000</td>
<td>Cleaning Kit for Use with All Tank-Type, Eyewash Stations</td>
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### Waste Container
- 28 gallon waste container fits securely on cart
- Not required for Fendall Pure Flow 1000® or Fendall 2000™

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<tbody>
<tr>
<td>32-000616-0000</td>
<td>Waste Container for Use with Universal Cart 932-00160-000</td>
</tr>
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</table>

## Universal Bottle Mounting Device
- Expandable strap with magnetic backing holds various personal eyewash bottle sizes up to 32 oz.
- Can be mounted for permanent placement
- Easy installation, takes less than one minute
- Fits all Sperian® personal eyewash bottles as well as most competitor bottles
- 4 per case — sold in cases only

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<tr>
<td>32-003101-0000</td>
<td>Universal Bottle Mounting Device</td>
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### Universal Eyewash Stand
- Inexpensive alternative to wall mounting
- Versatile stand can be mounted to a floor or be used as free standing
- Compact and easy to assemble (assembly time ~ 5 minutes or less)
- All assembly parts are included
- Lightweight, sturdy steel tubing design (25 lbs)

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<tr>
<td>32-000405-0000</td>
<td>Eyewash Stand for use with Fendall 2000, Fendall Pure Flow 1000, and Fendall Porta Stream I, II and III</td>
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### Universal Eyewash Cart
- Provides quick, easy portability for self-contained, gravity-fed emergency eyewash devices
- Reliable, hand-truck design ensures durability

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<tr>
<td>32-001060-0000</td>
<td>Eyewash Cart for Use with All Portable Devices</td>
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### Wire Storage Rack
- Wire rack holds 4, 1-gallon cartridges
- Allows multiple cartridges to be stored in immediate vicinity of Fendall Flash Flood

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<tbody>
<tr>
<td>32-000462-0000</td>
<td>Wire Rack for Use with Fendall Flash Flood</td>
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**Visit www.ansi.org for complete ANSI Z358.1-2004 Standard.**

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EMERGENCY EYEwash CONSIDERATIONS

Cost — Plumbed vs. Self-Contained

Plumbed emergency eyewash systems are essential. ANSI Z358.1-2004 requires that plumbed units be activated weekly to verify proper operation. Self-contained devices must be inspected and maintained according to manufacturer’s instructions. Fluid in devices used with mixed water is treated with a factory prepared liquid concentrate and must be changed in accordance with the manufacturer’s directions. Factory-sealed fluid cartridges offer low maintenance charges up to 24 months unless the eyewash device is activated sooner.*

Maintenance

All emergency eyewash systems must be inspected at least annually to ensure conformity with ANSI Z358.1-2004 requirements.

Flushing fluid Quality

While tap water is widely available, it is not the preferred solution for emergency eye flushing. Tap water used in plumbed systems or some tank-type eyewashes may contain various particulates or harmful contaminants. Fluids in the flushing stream can injure the eye and may obstruct fluid flow. Tap water may also contain various microorganisms and bacterial contaminants from the interior surface of water pipes that can pose a threat to injured eye tissue. The ideal solution for emergency eye flushing is 100% sterile or clean, contamination-free, buffered, and pH balanced saline solution which minimizes the extent of damage caused by injurious materials.

reference: compliance regulations

OSHA Requirements

OSHA specifies requirements for workplace eye hazard areas. High incident eye injury areas have activities involving splash and spills, battery charging, tool parts washing, laboratory work, chemical storage, and chemical pumping and mixing. Injurious materials may be present in solid, liquid, powder, mist or vapor form.

Hazard Communication Standard, 29 CFR 1910.1200, requires employers to identify chemicals and hazardous energy sources. When hazardous energy sources are identified, employers must prepare written procedures, provide employee training, and provide equipment to protect against both the energy source and the process. Facilities where hazardous energy sources are used must have a safety coordinator. The safety coordinator must be an employee who is knowledgeable about the hazardous energy sources and who has overall responsibility for the safety of the workplace. The safety coordinator must also ensure that all workers are aware of the hazards associated with the hazardous energy sources and the safety procedures that must be followed to prevent these hazards.

ANSI Standard

The ANSI Z358.1-2004 Standard for Emergency Eyewash and Eyewash Equipment is the definitive standard for meeting the OSHA requirement for “suitable facilities.” ANSI Z358.1-2004 states specific installation requirements for plumbed self-contained eyewashes. It is the employer’s responsibility to ensure that eyewashes shall be in accessible locations that require no more than 10 seconds to reach. The eyewash unit shall be located on the same level as the hazard and the path of travel shall be free of obstructions that may inhibit the immediate use of the equipment. For a strong acid or strong caustic, the eyewash should be immediately adjacent to the hazard. Performance requirements for plumbed/self-contained eyewash units are also specified by ANSI Z358.1-2004.

Plumbed and self-contained eyewash equipment shall be capable of delivering flushing fluid to the eyes not less than 1.5 liters (4 gpm) per minute for 15 minutes. A means shall be provided to ensure that a controlled output of flushing fluid is provided to both eyes simultaneously at a velocity low enough to be non-injurious to the user. Nozzles shall be protected from airborne contaminants. Whatever means is used to afford such protection, its removal shall not require a separate motion by the operator when activating the unit. The eyewash unit shall be designed to provide enough room to allow the eyelids to be held open with the hands while the eyes are in the flushing fluid stream. Visit www.sperian.com for complete ANSI Z358.1-2004 details.

Sperian Saline Solutions

Sperian’s world-renowned delivery systems and devices utilize a sterile solution or buffered saline solution, both of which are superior to tap water or water with a additive for emergency eye care. Unlike tap water that may contain contaminants that can further irritate or damage the eyes, saline solution is purified and physiologically balanced to the pH and salinity of human tears. Saline solution is offered in factory-sealed cartridges and personal eyewash bottles. Factory-sealed fluid cartridges eliminate mixing, measuring, and the opportunity for airborne particles or microorganisms to contaminate the fluid prior to use. Sealed fluid containers last up to 24 months* and replacement takes less than five minutes. There is a 36-month shelf life* on sterile personal eyewash bottles. Features

Benefits

• Sterile

Free from living microorganisms and bacteria, especially those that cause disease and further harm to an already injured or compromised eye

• Buffered

Ensures neutral pH of flushing fluid and reduces likelihood of fluid causing additional damage to an injured eye

• Saline solution

Minimizes irritation and maximizes flushing comfort with a solution that is physiologically balanced to the pH and salinity of human tears

• Contaminant-free

Does not contain irritants like chlorine, rust and various microbial contaminants that may be found in tap water

• User-friendly

Allows maximum user comfort and flushing effectiveness over the entire 15-minute flushing period required by ANSI Z358.1-2004

• Versatile

Saves maintenance costs with quick fluid change options including up to 24-month* sealed cartridge life

*shelf life determined by date of manufacture. Always check product expiration date

OTHER SPERIAN SOLUTION OPTIONS

Sperian Concentrate

Sperian Concentrate creates a flushing fluid solution that reacts better with the eye than water or water with an additive does. Sperian Concentrate contains specific additives to provide a cost-effective solution for eyewash refills. When mixed in the proper ratio with potable (drinking) water, Sperian Concentrate provides a preserved, buffered, saline solution.

Sperian Water Additive

When mixed with potable water, Sperian Water Additive provides a preserved solution for use in self-contained eyewash devices. Sperian Water Additive mixed with water is cost-effective, but does not impact possible contaminants. Sperian Water Additive is non-toxic in the recommended concentration.
Why Is A Sterile Eyewash Solution Better?

- Sterile solution offers unmatched safety.
- When compared to tap water, sterile solution offers the best protection from contaminants and bacteria that could lead to secondary trauma to an injured eye.
- Sterile solution reduces the risk of potential liability if eye injury from flushing with contaminated water occurs.
- Flushing eyes with tap water can be very painful. People find it virtually impossible to flush their eyes with tap water for the recommended 15 minutes. The water is often too cold or too hot to be tolerated. The presence of chemicals and contaminants in tap water can exacerbate the problem.
- Flushing with tap water can damage the epithelial layer of the eye. A study conducted by the Louisiana State University Health Sciences Center and the Kentucky Lions Eye Center found that flushing with tap water can further disrupt the eye’s protective epithelial cell layer and cause additional corneal cell damage because it is incompatible with the pH of the eye.
- Tap water introduces contaminants into the injured eye. Plumbed eyewash stations can develop rust and scale in their supply lines. Though tap water is suitable for drinking, it does contain various irritants and contaminants including the free-living amoeba, Acanthamoeba. In fact, a December 2005 survey by the Environmental Working Group (EWG), a nonprofit environmental research and advocacy group based in Washington, DC, found 141 unregulated chemicals and an additional 119 for which the Environmental Protection Agency (EPA) has set health-based limits. Most common among the chemicals found were disinfection by-products, nitrates, chloroform, barium, arsenic and copper. Flushing these harmful elements into an already damaged eye can cause serious secondary injury and possible vision loss.
- By definition, Sterile means free from living microorganisms and bacteria, especially those that can cause disease and bring further harm to an already injured or compromised eye.

Reference: Sterile Eyewash Solutions

THE SPLASH ON STERILE EMERGENCY EYEWASH SOLUTIONS

Recent research has proven that sterile emergency eyewash solutions deliver additional benefits to the patient being treated. The findings were compelling enough to advance the FDA’s plans to enforce regulations on the use of sterile solutions in portable emergency eyewashes.

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An easy formula to illustrate Sterile is:

0% Bacteria
0% Mold
0% Fungus
0% Pollutants

= 100% Sterile Eyewash

Essentially, there are no contaminants, no minerals, no scale, no living microorganisms, no rust, no chlorine and no irritants as a result of the sterilization process. The solution remains 100% Sterile; until the injured eye needs it!
Primary Emergency Eyewash Devices

**Fendall 2000™**
- Item # Description
  - 32-000095-0000 32 oz. Bottles with Extended Flow Nozzles
  - 32-000096-0000 16 oz. Bottles with Extended Flow Nozzles
  - 32-000097-0000 8 oz. Bottles with User-Controlled Delivery - Drops or Streams
  - 32-000098-0000 4 oz. Bottles with User-Controlled Delivery - Drops or Streams
  - 32-000099-0000 2 oz. Bottles with User-Controlled Delivery - Drops or Streams

**Fendall Pure Flow 1000™**
- Item # Description
  - 32-000010-0000 High Flowing, Saline Refill Cartridge for Fendall Pure Flow 1000

**Fendall Porta Stream I™ & II™**
- Item # Description
  - 32-000010-0000 Eyewash Station (English) with Saline Concentrate
  - 32-000010-0022 Eyewash Station (French Canadian) with Saline Concentrate
  - 32-000010-0070 Eyewash Station (Mexican Spanish) with Saline Concentrate
  - 32-000012-0000 Eyewash Station (English) with Water Additive
  - 32-000012-0022 Eyewash Station (French Canadian) with Water Additive
  - 32-000012-0070 Eyewash Station (Mexican Spanish) with Water Additive
  - 32-000011-0000 Eyewash Station (French) with Saline Concentrate

**Fendall Flash Flood®**
- Item # Description
  - 32-004641-0000 Wire Storage Rack for Fendall Flash Flood
  - 32-004642-0000 Wire Rack for Use with Fendall Flash Flood

**Universal Eyewash Stand**
- Item # Description
  - 32-001061-0000 Waste Container for Use with Universal Cart #32-001060-000
  - 32-001065-0000 Eyewash Stand for Use with Fendall 2000, Fendall Pure Flow 1000, and Fendall Porta Stream I, II and III

Secondary Emergency Eyewash Devices

**Fendall Porta Stream I™**
- Item # Description
  - 32-001810-0000 Eyewash Station (English) with Saline Concentrate
  - 32-001810-0022 Eyewash Station (French Canadian) with Saline Concentrate
  - 32-001810-0070 Eyewash Station (Mexican Spanish) with Saline Concentrate
  - 32-001812-0000 Eyewash Station (English) with Water Additive
  - 32-001812-0022 Eyewash Station (French Canadian) with Water Additive
  - 32-001812-0070 Eyewash Station (Mexican Spanish) with Water Additive

**Fendall Flash Flood®**
- Item # Description
  - 32-004641-0000 Wire Storage Rack for Fendall Flash Flood
  - 32-004642-0000 Wire Rack for Use with Fendall Flash Flood

Emergency Decontamination Shower

**Saline Personal Travel Bag**
- Item # Description
  - 32-004640-0000 12” x 6” x 9” - Qty 1, 1 lbs.

**Universal Eyewash Stand**
- Item # Description
  - 32-001050-0000 Saline Refill Cartridges for Fendall Pure Flow 1000
  - 32-001052-0000 Sterile Saline Refill Cartridges for Fendall Pure Flow 1000
  - 32-001053-0000 Saline Refill Cartridges for Fendall Flash Flood
  - 32-ST1050-0000 Sterile Saline Refill Cartridge for Fendall Pure Flow 1000

**Emergency Eyewash Refills**

**Saline Solution**
- Item # Description
  - 32-000501-0000 Saline Solution (Prescribed for Use with Fendall Porta Stream I, II, III

**Fluoride Water Additive**
- Item # Description
  - 32-001430-0000 Fluoride Water Additive for Use with all Portable Devices

**Emergency Eyewash Accessories**

**Dust Cover**
- Item # Description
  - 32-009310-0000 Dust Cover for Use with Fendall Porta Stream I, II

**Reflective Covers**
- Item # Description
  - 32-009312-0000 Reflective Cover for Use with Fendall Porta Stream II

For more information or to order products on this page, please call Customer Care at 800 682-0839.