Owens & Minor | HALYARD

# **COMFORT** AND **PROTECTION** THAT FITS THE BILL

## FLUIDSHIELD* SURGICAL N95 DUCKBILL RESPIRATOR

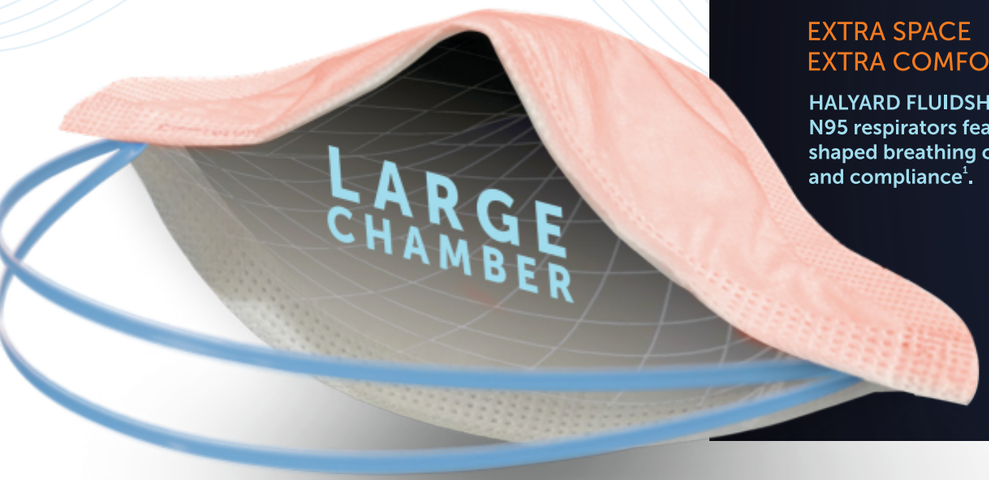
## FITS THE BILL

# FOR COMFORT

**Comfort is a critical factor when considering N95 respirator brand choice.**

Healthcare workers in high risk environments need distraction-free PPE, allowing focus on the patient and the task at hand. Mask discomfort can lead to adjustment and compliance issues.

Of the two main N95 respirator mask shapes available: cone and duckbill; the duckbill shape offers a significantly larger internal breathing environment.




## LARGE BREATHING SPACE

### EXTRA SPACE EXTRA COMFORT

**HALYARD FLUIDSHIELD* Surgical N95 respirators feature a large duckbill shaped breathing chamber for comfort and compliance[1].**

### LIGHT ON THE FACE

A heavy N95 respirator can feel cumbersome and uncomfortable, requiring additional adjustments to keep it in place.

HALYARD FLUIDSHIELD* Surgical N95 Respirators are light on the face[2].

### LESS FOGGING FRUSTRATION

Myopia is increasing globally[3], with a high prevalence in the Asia Pacific region[4]. For healthcare workers wearing glasses, fogging can be a direct issue associated with mask use, leading to distraction and irritation.

A secure fit around the face is critical to reduce fogging. **The HALYARD FLUIDSHIELD* Surgical N95 Respirator molds to create a mask-to-face seal, perfectly sculpted to the individual wearer, which may reduce fogging frustration.**

### EASY TO SHAPE

The effectiveness of respirators rely on the mask-to-face seal. **HALYARD FLUIDSHIELD* Surgical N95 Respirators feature a malleable aluminium nose wire along the top of the mask, adapting to the contours of the face and supporting an individual fit.**

**In addition, the latex-free head straps are securely bonded, NOT STAPLED to the mask.**

### LOW IRRITATION

Mask use can lead to skin irritation, for healthcare workers with sensitive skin.

**HALYARD FLUIDSHIELD* Surgical N95 Respirator components have been tested to meet ISO Standard 10993-10**, designed to assess medical devices and their constituent materials, with regard to their potential to produce irritation and skin sensitization[5].

DON'T WEAR THE RISK. WEAR HALYARD

## FITS THE BILL

# FOR PROTECTION

**Not all N95 respirators offer the same level of protection.** The COVID-19 pandemic and subsequent high rates of infection amongst healthcare workers, has highlighted that health facilities cannot compromise on PPE protection for their staff. With superior performance exceeding NIOSH standards, the HALYARD FLUIDSHIELD* Surgical N95 Respirator offers the highest level of respiratory and fluid protection.

### FLUID RESISTANCE

An unrated N95 respirator can leave healthcare workers exposed where the risk of fluid arises, particularly in unpredictable settings such as ICU, OR and Emergency.

Studies show fluid strikes the face area of OR staff on average 45-51% of the time[6].

**HALYARD FLUIDSHIELD* Surgical Level 3 N95 Respirators provide the HIGHEST RECOGNISED LEVEL OF PROTECTION from splash, offering ASTM Level 3 (160mmHg) protection[7].**

### PROTECTION THAT EXCEEDS NIOSH STANDARDS

The COVID-19 pandemic has seen a significant increase in the supply of masks that fail to comply with regulatory standards[8].

NIOSH (National Institute for Occupational Safety and Health) is the leading agency certifying safety and performance of respirators. NIOSH tests ensure an N95 respirator provides at least 95% filtration efficiency, at 0.3 microns.

**All HALYARD FLUIDSHIELD* Surgical N95 Respirators are NIOSH approved, exceeding NIOSH filtration and breathability standards[9].**

**100% of HALYARD FLUIDSHIELD* Surgical N95 Respirators are FDA cleared medical devices for use in healthcare settings, (not industrial grade respirators) and meet the CDC guidelines for Tuberculosis exposure control[10].**

### CHEMOTHERAPY PROTECTION

Chemotherapy drugs can represent a significant health risk to operating theatre staff.

When a patient has received chemotherapy and requires surgery, the surgical team involved requires protection against exposure to potentially carcinogenic fluids that may cause chromosomal damage.

**HALYARD FLUIDSHIELD* Surgical Level 3 N95 Respirators are tested against 7 commonly used chemotherapy drugs[11].**

*Note: When cytotoxic drugs are being administered as an aerosol, OSHA recommends use of powered air-purifying respirators only.*

### ATTRACTS AND RETAINS SMALLER MICRONS

Viruses present at varying particle sizes. The most challenging particle size to capture via filter media is 0.3 microns.

Designed with a layer of electro statically charged filter media, **HALYARD FLUIDSHIELD* Surgical N95 Respirators attract and secure at least 95% of all particles, even those at 0.3 microns[12].**

**DON'T WEAR THE RISK. WEAR HALYARD**

### QUALITATIVE FIT TEST

OSHA requires fit testing for all healthcare workers who are required to wear tight-fitting facepiece respirators. To ensure that HALYARD FLUIDSHIELD* Surgical N95 Respirators provide the intended level of protection, every wearer should be Fit Tested[13].

HALYARD FLUIDSHIELD* Surgical N95 Respirators may be used in conjunction with a hood for fit testing.

Ask about the HALYARD* Qualitative Fit Test Kit.
The HALYARD* Qualitative Fit Test Kit contains all the materials and instructions you require.

## FITS THE BILL

# FOR QUALITY

**High performance and proven quality you can trust.** The most important element in selecting an N95 respirator mask, is the confidence of knowing you are protected by outstanding quality.

### FACEMASKS ARE OUR HERITAGE

As a global market leader and manufacturer of face masks, HALYARD has been designing and optimising facial protection for over 20 years. Our deep expertise pioneering infection prevention products ensures ongoing quality and consistent, superior performance.

**HALYARD sets the benchmark for N95 Respirator quality.**

### STRINGENT INTERNAL DESIGN PROTOCOLS

**HALYARD FLUIDSHIELD* Surgical N95 Respirators are engineered to perform. Halyard's stringent internal design verification protocols provide a high level of confidence in product performance for healthcare workers.[14]**

### IDEAL FOR STOCKPILING

As the COVID-19 Pandemic has shown, it's difficult to predict when a widespread infectious disease outbreak will occur.

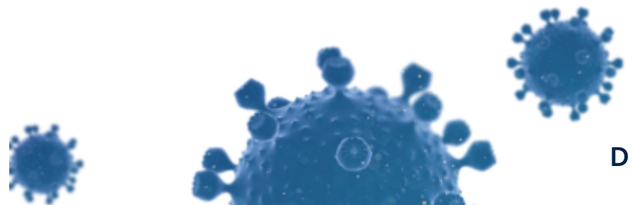
The best strategy for any healthcare facility is to be prepared by stockpiling critical Personal Protective Equipment (PPE).

**HALYARD FLUIDSHIELD* Surgical N95 Respirators have a 5-year shelf life, fold flat for compact storage and require LESS overall STORAGE SPACE[15].**

### VERTICALLY INTEGRATED RAW MATERIALS

With manufacturing investment and end-to-end control of our entire supply chain, such as non-woven fabric, halyard ensures best practice mask construction, and outstanding quality control.

**Halyard FLUIDSHIELD* Surgical N95 Respirators offer consistent, reliable supply.**



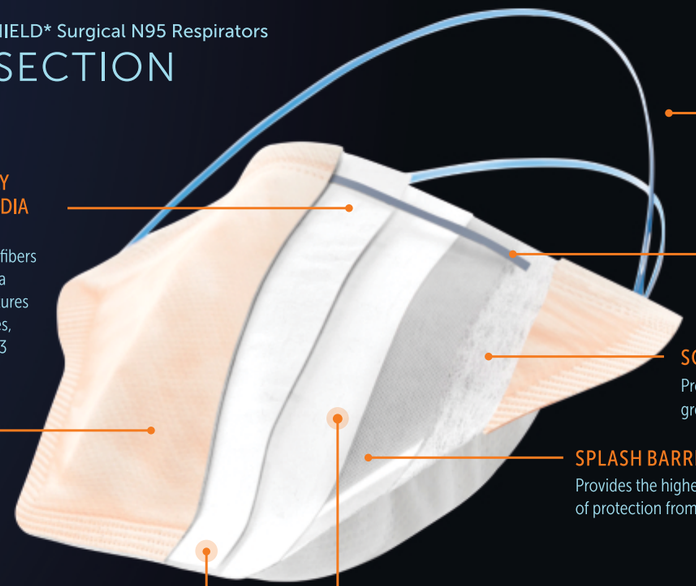
**DON'T WEAR THE RISK. WEAR HALYARD**

# NOT ALL N95 RESPIRATORS ARE CREATED EQUAL

The 5-layer construction in HALYARD FLUIDSHIELD* Surgical N95 Level 3 Respirators, provide N95 respirator performance and splash resistance up to 160mmHg.[17]

HALYARD FLUIDSHIELD* Surgical N95 Respirators

## CROSS SECTION



**BONDED STRAPS**
The two, over-the-head straps are bonded, not stapled.

**ADJUSTABLE ALUMINIUM NOSEWIRE**

**SO-SOFT* INNER LINING**
Provides a soft, smooth layer for greater comfort.

**SPLASH BARRIER**
Provides the highest-recognized level of protection from splash. [19]

**ELECTROSTATICALLY CHARGED FILTER MEDIA**
The super-fine, electrostatically charged fibers in the filter media create a tortuous path which captures at least 95% of all particles, even the most difficult 0.3 microns.[18]

**SPUNBOND OUTER LAYER**
Contributes to splash resistance, with the HALYARD FLUIDSHIELD* distinctive orange color.

Larger microorganisms, like bacteria and aerosolized droplets, are trapped between the fibers.

Smaller viruses and particles (0.3 micron) stick to the fibers in the respirator.

# HALYARD N95 RESPIRATORS FIT THE BILL FOR COMFORT, PROTECTION AND QUALITY

### PROVIDE:

- ✓ **N95 Respiratory Protection (NIOSH)**
- ✓ **Splash Protection (Fluid Resistance)**
  - ASTM Level 3 (160mmHg)
- ✓ **Chemotherapy Protection.** Tested against 7 cytotoxic drugs.
- ✓ **Comfort Supporting Compliance:**
  - Large Breathing space
  - Light on the face
  - Mask-to-face seal may reduce fogging frustration
  - Malleable nose wire creates individual fit
  - Components tested to ISO 10993-10 indicating low irritation

### MEET SURGICAL AND RESPIRATORY STANDARDS:

- ✓ **NIOSH Approved** to filter out at least 95% of particles at 0.3 microns
- ✓ **EXCEEDS NIOSH filtration and breathability standards**
- ✓ **US-FDA cleared** Class 2 medical device

### SUITABLE FOR:

- ✓ **Use in Isolation Protocols**
- ✓ **Procedures or situations that require Respiratory and/or Facial Splash Protection**
- ✓ **Operating Theatre:**
  - Chemotherapy procedures (non-aerosolized delivery)
  - Exposure to surgical smoke / laser plume[20].
- ✓ **Pandemic Preparedness**
  - Folds flat for compact storage, requiring LESS storage space
  - 5 year shelf life
  - Ideal for stockpiling
- ✓ **For use in Tuberculosis exposure control[21].**

| Product Code | Description and Size | Packaging | PFE (0.1 µm) | BFE (3 µm) | ASTM |
|---|---|---|---|---|---|
| 46727 | FLUIDSHIELD* Surgical N95 Respirator, REGULAR SIZE | Masks/Box = 35<br>Boxes/Case = 6 | ≥ 99% | ≥ 99% | Level 3, 160 mmHg |
| 46767 | FLUIDSHIELD* Surgical N95 Respirator, Safety Seal Film, REGULAR SIZE | Masks/Box = 35<br>Boxes/Case = 6 | ≥ 99% | ≥ 99% | Level 3, 160 mmHg |


References:

1-2: Data on file; 3. World Health Organization. (2015). The impact of myopia and high myopia. Report of the Joint World Health Organization-Brien Holden Vision Institute, Global Scientific Meeting on Myopia. University of New South Wales, Sydney, Australia. 16-18 March 2015. Available at: https://www.who.int/blindness/causes/MyopiaReportforWeb.pdf; 4. The Fred Hollows Foundation. (2020). World optometry Day: Spotlight on Optometrists. Retrieved from: https://www.hollows.org/hk-en/latest/; 5-7: Data on file; 8. Davey, M. (2020) 'Hundreds of types of face masks withdrawn in Australia amid safety fears', The Guardian, 7 Aug. Available at: https://www.theguardian.com/australia-news/2020/aug/06/hundreds-of-types-of-face-masks-withdrawn-from-sale-in-australia-amid-safety-fears (Accessed: 23 Nov 2020); 9. Data on file; 10. HALYARD FLUIDSHIELD* Surgical N95 Respirator Instructions for Use; 11. Data on file. (Code 46727 tested against (Carmustine, Cyclophosphamide, Doxorubican Hydrochloride, Etoposide, Fluorouracil, Paclitaxel, ThioTepa, with Carmustine breakthrough of 0.1 µg/cm2/min detected at 25.7 minutes); 12. Data on file; 13. OSHA. Hospital Respiratory Protection Program Toolkit. 2015; 14–15, 17-19. Data on file; 20. Where there is potential for surgical smoke / laser plume, the CDC recommends wearing a properly fitted filtering facepiece respirator, such as an N95 Respirator. https://www.cdc.gov/niosh/topics/healthcarehsps/smoke.html 21. As per OSHA's 1996 Directives CPL 2.106 Enforcement Procedures and Scheduling for Occupational Exposure to Tuberculosis.



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