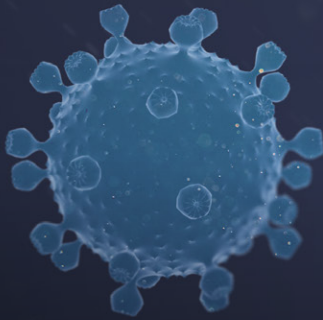


COMFORT AND
PROTECTION THAT
FITS THE BILL



FLUIDSHIELD* SURGICAL N95
DUCKBILL RESPIRATOR

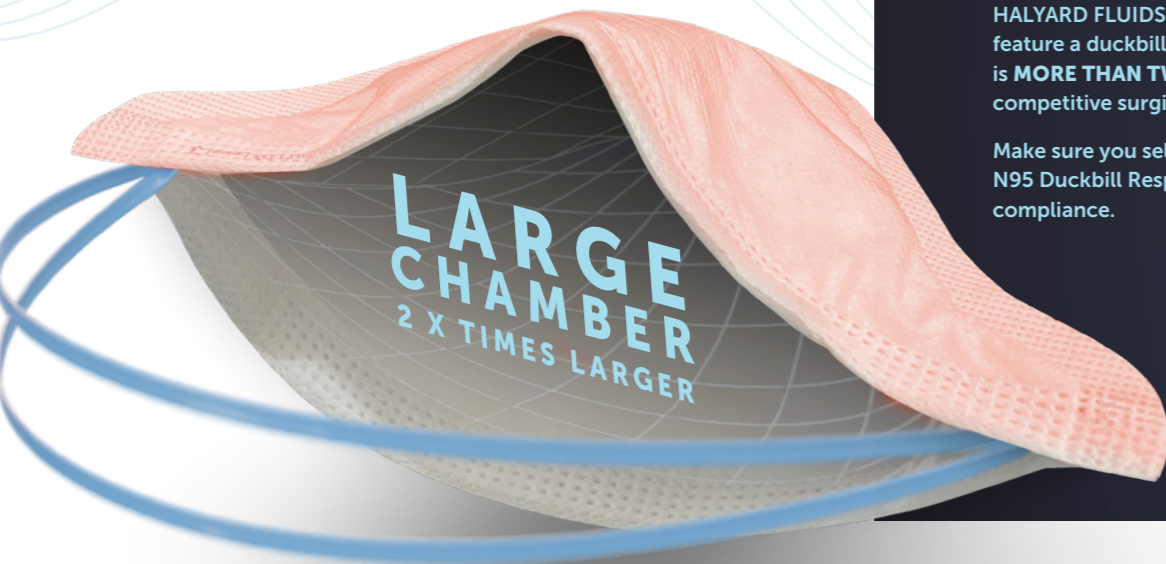


FITS THE BILL FOR COMFORT

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, increasing the risk of occupationally acquired infection.

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



TWICE THE BREATHING SPACE

EXTRA SPACE MEANS EXTRA COMFORT

HALYARD FLUIDSHIELD* Surgical N95 respirators feature a duckbill shaped breathing chamber that is **MORE THAN TWICE AS LARGE** as the leading competitive surgical N95 respirator.¹

Make sure you select the HALYARD FLUIDSHIELD* N95 Duckbill Respirator for comfort and compliance.



LIGHTER 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 10%-21% lighter than leading competitor N95 respirators.²



LESS FOGGING FRUSTRATION

Myopia is increasing globally³, 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, supporting less 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, providing a secure and comfortable fit.



LESS 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 time⁶.

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



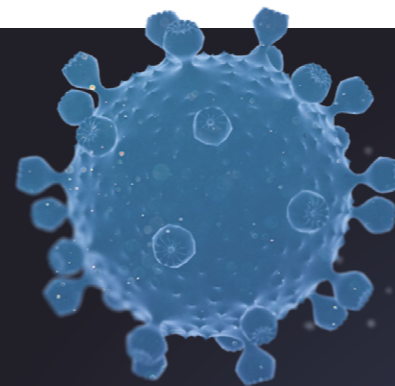
QUALITATIVE FIT TEST

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.¹⁴

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.



DON'T WEAR THE RISK. WEAR HALYARD

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 internal design test protocols go above and beyond NIOSH requirements, providing a high level of confidence in product performance for healthcare workers.

HALYARD FLUIDSHIELD* Surgical N95 Respirators are engineered to perform to stringent internal testing protocols.¹⁵



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.¹⁶

Other leading respirators require at least 40% more storage space for the same number of respirators.¹⁷



VERTICALLY INTEGRATED RAW MATERIALS

Halyard manufacturing plants are all vertically integrated, enabling end-to-end control of the entire supply chain.

This includes the manufacture of raw materials such as non-woven fabric, ensuring best practice mask construction and outstanding quality control.

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

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.¹⁸

HALYARD FLUIDSHIELD* Surgical N95 Respirators CROSS SECTION

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.¹⁴

SPUNBOND OUTER LAYER

Contributes to splash resistance, with the HALYARD FLUIDSHIELD distinctive orange color.

BONDED STRAPS

The two, over-the-head straps are bonded, not stapled, for optimal comfort.

ADJUSTABLE ALUMINIUM NOSEWIRE

SO-SOFT* INNER LINING

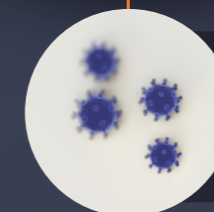
Provides a soft, smooth layer for greater comfort.

SPLASH BARRIER

Provides the highest-recognized level of protection from splash.²⁰



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.

DON'T WEAR THE RISK. WEAR HALYARD

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:
 - More than TWICE the breathing space
 - 10%-21% lighter on the face
 - Mask-to-face seal ensures less 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
- ✓ 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)
 - Protection against laser plume
- ✓ Pandemic Preparedness
 - Folds flat for compact storage, requiring LESS storage space
 - 5 year shelf life
 - Competitors require at least 40% more storage space
- ✓ For use in Tuberculosis exposure control.²¹



Product Code	Description and Size	Packaging	PFE (0.1 µm)	BFE (3 µm)	ASTM	Product Code	Description and Size	Packaging
46727	FLUIDSHIELD* Surgical N95 Respirator, REGULAR SIZE	Masks/Box = 35 Boxes/Case = 6	≥ 99%	≥ 99%	Level 3, 160	47950	Qualitative Fit Test Kit	Masks/Box = 1 Boxes/Case = 1
46827	FLUIDSHIELD* Surgical N95 Respirator, SMALL SIZE	Masks/Box = 35 Boxes/Case = 6	≥ 99%	≥ 99%	Level 3, 160	99003	Saccharin Solutions	Masks/Box = 2 Boxes/Case = 1
						99009	Bitrex® Solutions	Masks/Box = 2 Boxes/Case = 1
						99018	Nebulizers	Masks/Box = 2 Boxes/Case = 1

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References

1. CLAIM-07826; (GHX Corporation, 2020 Marketshare Report) 2. CLAIM-07873; 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. NAMS, GLP Report T1261_300 and C2009-944-C-R4-2 N95; 6. CLAIM-06541; 7. IPS Job # 46161 and 72843; 8. NIOSH Test Report 22659; 9. NIOSH Test Report TN-22659; 10. HALYARD FLUIDSHIELD* Surgical N95 Respirator Instructions for Use 11. CLAIM-07666. Code 46727 tested against (Carmustine, Cyclophosphamide, Doxorubican Hydrochloride, Etoposide, Fluorouracil, Paclitaxel, ThioTepla, with Carmustine breakthrough of 0.1 µg/cm2/min detected at 25.7 minutes); 12. NIOSH Test Report TN-22659; 14. OSHA. Hospital Respiratory Protection Program Toolkit. 2015; 15. PR-11540, Statistical Sampling Requirements Aligned to Risk Management; 16. Report DSR-SR-00203; 17. CLAIM-07870; 18. IPS Job # 46161 and 72843; 20. IPS Job # 46161 and 72843; 21. As per OSHA's 1996 Directives CPL 2.106 Enforcement Procedures and Scheduling for Occupational Exposure to Tuberculosis.