



**YOUR  
PARTNER  
THIS FLU  
SEASON**

# **Superior mask protection never felt so good.**

## **FLUIDSHIELD\* ASTM RATED MASK RANGE**

Facial protection can be as  
easy as 1,2,3<sup>AB</sup>

**Our  
Commitment  
to you**

**Better  
Infection  
Protection**



# Test methods for face masks.



## Bacterial Filtration Efficiency (BFE) AT 3µm: ASTM F2101

Determines the bacterial filtration efficiency (BFE) of various filtration materials. This test employs a ratio of the bacterial challenge counts to sample effluent counts to determine the percent bacterial filtration efficiency (%BFE). The test procedure allows a reproducible bacterial challenge to be delivered materials, and provides a standard procedure for comparison of filtration materials.

**The higher the BFE, the better the filtration efficiency, the better the protection.**



## Differential Pressure or Breathability (DELTA P): 4.4.1.2 of MIL-M-36954C

Determines the air exchange differential of porous materials measured in mm H<sub>2</sub>O/cm<sup>2</sup>. This technique employs a water manometer differential upstream and downstream of the test material at a constant flow rate.

**The lower the delta P, the more breathable the material is. However, this can also mean lower levels of protection.**



## Fluid Resistance: ASTM F 1862

Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at Known Velocity).

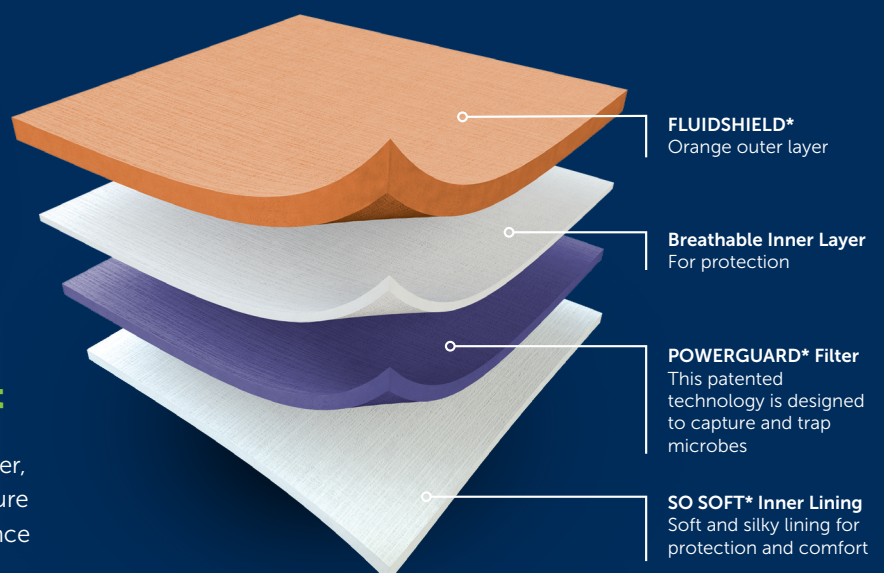
Developed to simulate a challenge to the fluid splash resistance of a face mask under conditions similar to actual use. During this test, face masks are insulted with synthetic blood, and graded as a pass or fail. The masks are evaluated at three pressures: 80, 120, and 160mmHg.

**The higher the pressure at which a mask passes, the greater the fluid resistance.**

## Superior protection never felt so good.

### The next generation in comfort

FLUIDSHIELD\* masks not only provide superior cover, with four layers of barrier protection; they also feature an inner SO SOFT\* lining to deliver the critical balance between protection and clinician comfort.





# HALYARD\* leads the way in **ASTM-rated** protection.

**For over 20 years, O&M Halyard has been a global market leader and manufacturer of facial protection. With rigorous batch testing you can have confidence that HALYARD\* FLUIDSHIELD\* masks meet TGA requirements for fluid-resistance protection.**

All HALYARD\* FLUIDSHIELD\* Surgical and Procedure Masks are available in Levels 1, 2 and 3 and are fluid resistant.

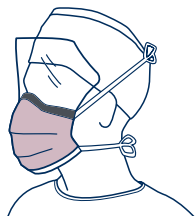
Masks are rated according to performance levels:



**Level 1**  
80mm Hg



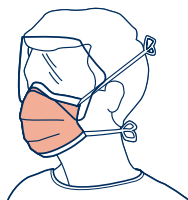
**LOW**



**Level 2**  
120mm Hg



**MODERATE**



**Level 3**  
160mm Hg



**HIGH**

FLUID RESISTANCE

## **FLUIDSHIELD\*** **FACE MASKS**

**HALYARD\* – Providing the right mask for infection prevention**

- All HALYARD\* FLUIDSHIELD\* Masks meet the Australian Standards AS 4381:2015
- HALYARD\* masks are designed to provide superior protection and comfort
- Breathable inner layer for protection
- POWERGUARD\* Filter, designed to capture and trap microbes
- SO SOFT\* inner lining for protection and comfort
- HALYARD\* FLUIDSHIELD\* masks are available in Level 1, 2 and 3
- The level of protection is clearly labelled on the mask nose piece and on the box, so you and your staff can easily identify the right mask for each task



# HALYARD\* is your partner in compliance to the mask standard AS 4381:2015 for single-use face masks.



## Australia Standard 4381:2015

### AS 4381:2015 single-use face masks

Characteristics	Level 1	Level 2	Level 3	Test Method
	Level 1 barrier medical face mask materials are evaluated for resistance to penetration by synthetic blood at the minimum velocity specified in Table 2, bacterial filtration efficiency and differential pressure.	Level 2 barrier medical face mask materials are evaluated for resistance to penetration by synthetic blood at the middle velocity specified in Table 2, bacterial filtration efficiency and differential pressure.	Level 3 barrier medical face mask materials are evaluated for resistance to penetration by synthetic blood at the maximum velocity specified in Table 2, bacterial filtration efficiency and differential pressure.	
Applications	For general purpose medical procedures, where the wearer is <b>not at risk</b> of blood or bodily fluid splash or to protect staff and/or the patient from droplet exposure to microorganisms (e.g. patient with upper respiratory tract infection visits GP	For use in emergency departments, dentistry, changing dressings on small or healing wounds where <b>minimal blood droplet exposure may possibly occur</b> (e.g. endoscopy procedures)	For all surgical procedures, major trauma first aid or in any area where the health care worker <b>is at risk</b> of blood or bodily fluid splash (e.g. orthopaedic, cardiovascular procedures)	
Bacterial Filtration Efficiency (BFE) %	≥ 95%	≥ 98%	≥ 98%	ASTM F2101-14 or EN 14683:2014
Differential Pressure (Delta P) mm H <sub>2</sub> O/cm <sup>2</sup>	< 4.0	< 5.0	< 5.0	EN 14683:2014
Resistance to penetration by synthetic blood (fluid resistance) <i>min pressure in mm Hg for pass result</i>	80mm Hg	120mm Hg	160mm Hg	ASTM F1862 / F1862M-13 or ISO 22609

For the highest levels of protection, choose HALYARD\* Face Masks.

## All HALYARD\* FLUIDSHIELD\* Surgical and Procedure Masks are available in Levels 1, 2, and 3 and are fluid resistant.

The level of protection is clearly labelled on the mask nose piece and on the box, so you and your staff can easily identify the right mask for each task.

ALWAYS READ THE LABEL AND FOLLOW THE DIRECTIONS FOR USE.



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† Reference data on file.  
^ ASTM International. (2017). ASTM F1862-17: Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood. ASTM International. # Standards Australia. (2015). AS 4381:2015 Single-use face masks for use in health care. Standards Australia. COPY-05016

### Level 1

CODE: 25868  
Procedure Mask, SO SOFT\*, with Earloops, Lavender



### Level 2

CODE: 62114  
Fog-Free Surgical Mask, Wrap-around Visor, with Ties



With visors: 62114

### Level 3

CODE: 47107  
Fog-Free Procedure Mask, SO SOFT\*, with Earloops



CODE: 47147  
Fog-Free Procedure Mask, SO SOFT\*, Wraparound Visor, with Earloops



CODE: 48207  
Fog-Free Surgical Mask, SO SOFT\*, with Ties



CODE: 48247  
Fog-Free Surgical Mask, SO SOFT\*, Wraparound Visor, with Ties



CODE: 48297  
Teddy Bear Surgical Mask, SO SOFT\*, with Ties



With visors: 47147, 48247