

# FLUIDSHIELD\* ASTM F2100-11 SPECIALTY SURGICAL MASKS

Fluid-Resistant Protection.



## NOW GET BOTH COMFORT AND TOP-TO-BOTTOM PROTECTION

**IS YOUR SURGICAL MASK  
DOING HALF THE JOB?**

**GET THE WHOLE TRUTH.**

Studies show fluid strikes the face area of OR staff on average between 45 and 51% of the time.<sup>1</sup> And the truth is, over 70% of masks aren't rated for fluid resistance.<sup>2</sup>

Now get both — the comfort you've always wanted and top-to-bottom protection — with new HALYARD\* FLUIDSHIELD\* ASTM-rated specialty surgical masks. HALYARD\* offers you a full line of ASTM-rated fluid-protective masks with unique comfort and performance features designed to satisfy your OR staff.



**When the lives of patients and staff are on the line, more healthcare professionals choose**

**HALYARD\*. THE LEADER IN  
FACIAL PROTECTION.**

# ASTM Level 1 — Low Fluid Exposure Expected



FLUIDSHIELD\* Level 1 Specialty Surgical Masks are ASTM-rated fluid-protective masks - with unique comfort features designed to satisfy your OR staff. All Level 1 masks feature longer ties than other HALYARD\* masks and a SO SOFT\* bicomponent inner lining - the softest and silkiest among leading surgical masks tested<sup>3</sup>. Plus, they're powered by POWERGUARD\* filter technology for enhanced microbial barrier protection.



**39117**

**FLUIDSHIELD\* Level 1 Surgical Mask, with SO SOFT\* Lining, Horizontal Ties, Blue**

- A surgical mask with horizontal ties that is also fluid-resistant for protection
- Longer horizontal ties for ease of donning
- Larger design provides more facial coverage than other HALYARD\* masks



**39118**

**FLUIDSHIELD\* Level 1 Surgical Mask, with SO SOFT\* Lining, High-Clarity WrapAround Visor, Horizontal Ties, Blue**

- A surgical mask with horizontal ties and WrapAround visor that is also fluid-resistant for protection
- Longer horizontal ties for ease of donning
- Larger design provides more facial coverage than other HALYARD\* masks
- PLUS high-performing patent pending attached visor provides:
  - High visual clarity for improved visibility
  - Innovative anti-reflective coating to reduce glare
  - Special anti-fog coating that resists fogging



LOW

**39125**

**FLUIDSHIELD\* Level 1 Anti-Fog Surgical Mask, with Smart Adhesive and SO SOFT\* Lining, Ties, Green**

- For anti-fog tape mask users who need fluid resistance, HALYARD\* now has a mask for you.
- Fluid-resistant at Level 1 (low fluid exposure expected)
- New Smart Adhesive designed to cling gently and securely but remove easily in doffing
- More than 80% of users in a study rated the mask highly for fog-resistance<sup>4</sup>
- Rated by users as softer than other leading adhesive tape mask<sup>4</sup>



**41805**

**FLUIDSHIELD\* Level 1 Surgical Mask, with SO SOFT\* Lining, Ties, White**

- Dye-free
- SO SOFT\* lining has been shown in tests to be non-irritating to the skin



**28806**

**FLUIDSHIELD\* Level 1 Surgical Mask, with SO SOFT\* Lining, Ties, Green**

- Foam band for fog-resistance



To don, simply peel off inner liner and place mask on face. No messy slip sheets to fall to the floor.

## Performance Specifications

### ASTM F2100-11 Level 1 Test Methods and Descriptions

Test Method	Test Description	ASTM F2100-11 Standard - Level 1	HALYARD* Face Masks				
			39117	39118	39125	41805	28806
ASTM F1862	Fluid Resistance with synthetic blood, in mm Hg	80 mm Hg	80 mm Hg	80 mm Hg	80 mm Hg	80 mm Hg	80 mm Hg
MIL-M-36954C	Delta P Differential Pressure, mm H <sub>2</sub> O/cm <sup>2</sup>	<4.0 mm H <sub>2</sub> O/cm <sup>2</sup>	Pass	Pass	Pass	Pass	Pass
ASTM F2101	Bacterial Filtration Efficiency (BFE), %	≥ 95	99.0	99.0	99.9	99.9	99.9
ASTM F2299	Submicron Particulate Filtration (PFE) @ 0.1μ, %	≥ 95	99.0	99.0	98.8	98.8	98.8
16 CFR Part 1610	Flammability	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1

Values reported are based on the calculated median.  
Halyard data on file.

# ASTM Level 2 — Moderate Fluid Exposure Expected



FLUIDSHIELD\* Level 2 Specialty Surgical Masks are ASTM-rated fluid-protective masks - designed for comfort and performance. These Level 2 masks also feature a SO SOFT\* bicomponent inner lining and are powered by POWERGUARD\* filter technology for enhanced microbial barrier protection.



## 39123

### FLUIDSHIELD\* Level 2 Expanded Chamber Surgical Mask, with SO SOFT\* Lining, Ties, Blue/White

- Fluid-resistant at Level 2 on both top and bottom of mask for top-to-bottom protection
- Spacious expanded breathing chamber gives you more room to breathe
- Longer ties for ease of donning
- Soft, thermal-bonded binding secures conformable nosewire, enabling close facial fit



## 39124

### FLUIDSHIELD\* Level 2 Expanded Chamber Surgical Mask, with SO SOFT\* Lining, High-Clarity WrapAround Visor, Ties, Blue/White

- Fluid-resistant at Level 2 on both top and bottom of mask for top-to-bottom protection
- Spacious expanded breathing chamber gives you more room to breathe
- Longer ties for ease of donning
- Soft, thermal-bonded binding secures conformable nosewire, enabling close facial fit
- PLUS, high-performing patent pending attached visor provides:
  - High visual clarity for improved visibility
  - Innovative anti-reflective coating to reduce glare
  - Special anti-fog coating that resists fogging

MODERATE

## Performance Specifications

### ASTM F2100-11 Level 2 Test Methods and Descriptions

			HALYARD* Face Masks	
Test Method	Test Description	ASTM F2100-11 Standard - Level 2	39123	39124
ASTM F1862	Fluid Resistance with synthetic blood, in mm Hg	120 mm Hg	120 mm Hg	120 mm Hg
MIL-M-36954C	Delta P Differential Pressure, mm H <sub>2</sub> O/cm <sup>2</sup>	<5.0 mm H <sub>2</sub> O/cm <sup>2</sup>	Pass	Pass
ASTM F2101	Bacterial Filtration Efficiency (BFE), %	≥ 98	99.4	99.4
ASTM F2299	Submicron Particulate Filtration (PFE) @ 0.1μ, %	≥ 98	98.7	98.7
16 CFR Part 1610	Flammability	Class 1	Class 1	Class 1

Values reported are based on the calculated median.  
Halyard data on file.

## FLUIDSHIELD\* ASTM F2100-11 Specialty Surgical Masks

Code	Description	ASTM Performance Level	Masks/Box	Boxes/Case	Masks/Case
39117	FLUIDSHIELD* Level 1 Surgical Mask, with SO SOFT* Lining, Horizontal Ties, Blue	Level 1	50	6	300
39118	FLUIDSHIELD* Level 1 Surgical Mask, with SO SOFT* Lining, High Clarity WrapAround Visor, Horizontal Ties, Blue	Level 1	25	4	100
39125	FLUIDSHIELD* Level 1 Anti-Fog Surgical Mask, with Smart Adhesive and SO SOFT* Lining, Ties, Green	Level 1	50	6	300
41805	FLUIDSHIELD* Level 1 Surgical Mask with SO SOFT* Lining, Ties, White	Level 1	50	6	300
28806	FLUIDSHIELD* Level 1 Fog-Free Surgical Mask with SO SOFT* Lining, Ties, Green	Level 1	50	6	300
39123	FLUIDSHIELD* Level 2 Expanded Chamber Surgical Mask, with SO SOFT* Lining, Ties, Blue/White	Level 2	50	6	300
39124	FLUIDSHIELD* Level 2 Expanded Chamber Surgical Mask, with SO SOFT* Lining, High Clarity WrapAround Visor, Ties, Blue/White	Level 2	25	4	100

## OSHA Standard 1910.1030 Bloodborne Pathogens<sup>5</sup>

Personal Protective Equipment - 1910.1030(d)<sup>3</sup>(i) When there is occupational exposure [to bloodborne pathogens], the employer shall provide, at no cost to the employee, appropriate personal protective equipment such as, but not limited to, gloves, gowns, laboratory coats, face shields or masks and eye protection... [PPE] will be considered 'appropriate' only if it does not permit blood or other potentially infectious materials to pass through to or reach the employee's work clothes, street clothes, undergarments, skin, eyes, mouth, or other mucous membranes..."



## QUESTION YOUR PROTECTION

Get the full story and see the demo video at  
[halyardhealth.com/ASTMFaceMasks](http://halyardhealth.com/ASTMFaceMasks)

For more information, please visit:

[www.halyardhealth.com](http://www.halyardhealth.com)

Call 1-844-HALYARD (1-844-425-9273) in the United States and Canada.



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1 CG Davies et al, Ann R Coll Surg Engl 2007 89(8): 770-772; S Endo et al, Jour Hospital Infection 2007 (67) 1: 56-61; DC Berridge et al, Br J Surg 1993 80 (11): 1379-80.

2 GHX Data 2014

3 Holistic Attribute Panel Study, Kimberly-Clark (Halyard), 2013, Neenah, Wisconsin, 12 sensory panelists, data on file.

4 Adhesive Face Mask User Evaluation Study, Halyard, 2015, Alpharetta, Georgia, 146 face mask users, data on file.

5 Occupational Safety & Health Administration, Occupational Safety and Health Standards, Toxic and Hazardous Substances, Standard Number: 1910.1030 Bloodborne pathogens.