

Are You Comfortable with Your Level of Protection?

Understanding ASTM Standards and How They Relate to Choosing Facial Protection



Level
1 — 2 — 3



1 — Level
2 — 3



1 — 2 — Level
3








Getting Comfortable with Your Level of Protection

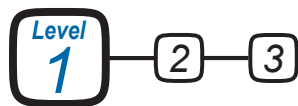
Being comfortable with your choices takes an understanding of ASTM Standards and how they relate to choosing the right level of facial protection.

ASTM F2100 Face Mask Standards












Three levels of protection are derived from standards that measure five performance characteristics:

-  Fluid Penetration Resistance **How well the mask protects against blood or other potentially infectious fluids.**
Measures resistance at one of three velocities corresponding to human blood pressures; 80, 120, and 160 mmHg.
-  Bacterial Filtration Efficiency (BFE) **How well the mask protects against harmful bacteria.**
Effectiveness is measured using bacteria with a mean particle size of $3.0\text{ }\mu\text{m}$ (microns) $\pm 0.3\text{ }\mu\text{m}$.
-  Sub-micron Particulate Filtration Efficiency (PFE) **How well the mask protects against harmful aerosol particles.**
Effectiveness is measured using particulates down to the size of $0.1\text{ }\mu\text{m}$ (microns).
-  Differential Pressure (Delta P, or ΔP) **How breathable is the mask.**
Measures resistance to air flow—the lower the number, the higher the air flow and, therefore, breathability.
-  Flame Resistance **Measures the potential burn rate of the mask.**
Materials must meet Class 1 requirements indicating no unusual burning characteristics.

Differences between levels and how that affects protection & comfort
















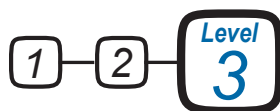
- Designed for lower risk fluid environments
- Provides good bacterial and particle filtration
- Greater comfort and breathability

FUNCTION	ASTM F2100 STANDARD	PERFORMANCE		
		GOOD	BETTER	BEST
Fluid Resistance	80 mmHg			
Bacterial Filtration	$\geq 95\%$			
Particle Filtration	$> 95\%$			
Breathability	< 4			
Flame Resistance	Class 1			

















- Designed for moderate to high risk fluid environments
- Provides excellent bacterial and particle filtration
- Good balance of performance and comfort

FUNCTION	ASTM F2100 STANDARD	PERFORMANCE		
		GOOD	BETTER	BEST
Fluid Resistance	120 mmHg			
Bacterial Filtration	$\geq 98\%$			
Particle Filtration	$> 98\%$			
Breathability	< 5			
Flame Resistance	Class 1			



- Designed for high risk fluid environments
- Provides excellent bacterial and particle filtration
- Maintains breathability while providing the highest level of fluid protection

FUNCTION	ASTM F2100 STANDARD	PERFORMANCE		
		GOOD	BETTER	BEST
Fluid Resistance	160 mmHg			
Bacterial Filtration	$\geq 98\%$			
Particle Filtration	$> 98\%$			
Breathability	< 5			
Flame Resistance	Class 1			

What the Layers of a Precept Mask Mean to Your Protection and Comfort

Outer Facing

First level of defense

Found in Levels Level 1 Level 2 Level 3

Precept's outer facings work in conjunction with other layers to optimize protection while maximizing breathability.

Fluid Barrier

Further protects from fluid spray

Found in Levels Level 2 Level 3

Precept incorporates barrier technology that helps prevent strikethrough while maintaining high levels of breathability.

Filter Media

Filters and traps harmful bacteria and particulates

Found in Levels Level 1 Level 2 Level 3

Precept uses light, high-performance filtration materials that exceed standards while simultaneously improving breathability.

Inner Facing

Critical to comfort

Found in Levels Level 1 Level 2 Level 3

Precept's soft, smooth inner facings are highly breathable and gentle on the skin.

Precept's ASTM F2100 rated face masks exceed performance standards while optimizing breathability and comfort.

Does your staff know what protection your current selection of Face Masks provides?

With the constant introduction of new GPO contracts, products, and guidelines, the choices for your protection are not always clear. The goal of Precept's **A.C.E. Program** (Assess, Consolidate, Educate) is to make sure healthcare professionals are properly protected by using the right masks in the correct ways.



ASSESS

Based on safety, comfort and compliance goals, Precept will review your current products and practices and then make recommendations. Sample assessment questions might include:

- What products are you currently using and why?
- If you could improve your current offering, what would be the one or two things you would like to accomplish?
- Do you select different face masks based on your risk environment (associated risk)?
- Can you describe the various levels of risk and what performance attributes guide your selection?
- Have you ever seen anyone alter a face mask prior to donning?



CONSOLIDATE

Precept will recommend the products you need and explain why. Our recommendations will include:

- A tailored mask offering appropriate for your individual needs
- Standardized offering and proper utilization of face masks will enable a 20% to 40% reduction of SKU's currently used
- Product specifications with attributes and benefits



EDUCATE

Through in-service training, we will teach your staff how to determine and correctly use the appropriate mask in different situations. Types of training and education include:

- Understanding current ASTM standards for face masks
- Tools to identify which mask to use and when
- Understanding the attribute tradeoffs when choosing between different face masks

Usage Poster

Based on recommendations, we will create a customized selection and usage poster with photos of the masks, situational use, proper wearing practices, etc.

We are committed to being your resource for all things PPE and will continue to keep you informed and protected as industry standards change.

Precept

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Precept®

Optimizing Safety, Maximizing Comfort