



# Guide to Face Mask Selection and Use

**Choose the right mask for the task!** Select the mask design, fit and filtration that matches the protection needs for each procedure or risk level. MaskEnomics™ makes it easy to find the level of filtration required, including ASTM Level 3, 2 and 1.

ASTM PERFORMANCE LEVELS

## MAXIMUM FILTRATION

### NIOSH Approved N95 Particulate Respirator

<b>High Fluid Resistance</b>	160 mmHg
<b>Filtration Efficiency</b>	PFE = 99.9% @ 0.1 micron
<b>Breathability - Delta P</b>	> 5.0 mm H <sub>2</sub> O/cm <sup>2</sup>
<b>Flame Spread</b>	Class 1

**N95**

Indicated for use when treating patients with airborne diseases such as TB or influenza.\*

Meets CE 0121 – In reference to EN 149: 2001 FFP2 NR.

Pictured: Isolator Plus™ N95 Particulate Respirator



## ASTM LEVEL 3

<b>High Fluid Resistance</b>	160 mmHg
<b>Filtration Efficiency</b>	BFE ≥ 98% PFE ≥ 98% @ 0.1 micron
<b>Breathability - Delta P</b>	< 5.0 mm H <sub>2</sub> O/cm <sup>2</sup>
<b>Flame Spread</b>	Class 1

**LEVEL 3**

Ideal for procedures where heavy to moderate amounts of fluid, spray and/or aerosols are produced.

Meets EN14683 Rating – Type IIR Standard.

Pictured: Ultra® Sensitive Earloop with Secure Fit® Mask Technology



## ASTM LEVEL 2

<b>Moderate Fluid Resistance</b>	120 mmHg
<b>Filtration Efficiency</b>	BFE ≥ 98% PFE ≥ 98% @ 0.1 micron
<b>Breathability - Delta P</b>	< 5.0 mm H <sub>2</sub> O/cm <sup>2</sup>
<b>Flame Spread</b>	Class 1

**LEVEL 2**

Ideal for procedures where moderate to light amounts of fluid, spray and/or aerosols are produced.

Meets EN14683 Rating – Type IIR Standard.

Pictured: Procedural Earloop with Secure Fit® Mask Technology



## ASTM LEVEL 1

<b>Low Fluid Resistance</b>	80 mmHg
<b>Filtration Efficiency</b>	BFE ≥ 95% PFE ≥ 95% @ 0.1 micron
<b>Breathability - Delta P</b>	< 4.0 mm H <sub>2</sub> O/cm <sup>2</sup>
<b>Flame Spread</b>	Class 1

**LEVEL 1**

Ideal for procedures where low amounts of fluid, spray and/or aerosols are produced.

Meets EN14683 Rating – Type II Standard.

Pictured: Isofluid® Earloop with Secure Fit® Mask Technology



## LOW PERFORMANCE

<b>Surgical Molded Utility Mask</b>	
<b>Physical Barrier Only</b>	
<b>No LEVEL Performance Level **</b>	
<b>Filtration Efficiency</b>	N/A

\*\*Unless mask manufacturer certifies mask meets ASTM performance level 1

Ideal as a comfortable substitute for earloop face masks, this mask is a simple physical barrier for exams and visitations or for dry, short procedures that do not produce fluid, spray or aerosols.

Pictured: Surgical Molded



## MINIMUM PERFORMANCE

<b>Utility Mask (Tissue/Tissue)</b>	
<b>Physical Barrier Only</b>	
<b>No LEVEL Performance Level</b>	
<b>Filtration Efficiency</b>	N/A

Ideal as a simple physical barrier for exams and visitations or for dry, short procedures that do not produce fluid, spray or aerosols.

Pictured: Isolite® Earloop



## Understanding ASTM Face Mask Performance Levels

FEATURE	EXPLANATION
<b>Fluid Resistance</b>	Mask resistance to penetration by synthetic blood under pressure (mmHg). Higher fluid resistance = Higher protection.
<b>BFE - Bacterial Filtration Efficiency</b>	Percentage of aerosol particles filtered at a size of 3 microns.
<b>PFE - Submicron Particle Filtration Efficiency</b>	Percentage of submicron particles filtered at 0.1 microns.
<b>Delta P - Differential Pressure</b>	Pressure drop across mask, or resistance to air flow in mmH <sub>2</sub> O/cm <sup>2</sup> . Greater resistance = better filtration but less breathability.
<b>Flame Spread</b>	Measures the flame spread of the mask material.



**THE DENTAL ADVISOR**  
Rated  
"Top Mask"  
**6 YEARS  
IN A ROW!**

SOURCE: American Society for Testing and Materials Standard specification for performance of materials used in medical face masks. F2100-11 Standard.

\*Follow CDC Guidelines: Do not treat active TB patients except in approved facilities, meeting all health department, CDC and OSHA standards, in the context of a complete respiratory protection program. CAUTION: The outside of masks and face shields are likely to become contaminated during use. Wash hands after touching any contaminated surfaces. Do not touch outside of the mask with wet or contaminated gloves or hands. Such contamination may compromise mask barrier asepsis by encouraging migration or "wicking" of microbes through the mask.

Crosstex International, Inc. can make no warranties or representations, either expressed or implied, that these products will fully protect the user from exposure to blood or bodily fluids or risk of contracting infectious diseases. OSHA requires the employer to evaluate the anticipated exposure and select the appropriate protective masks to prevent contamination of skin, eyes and respiratory passages. This poster may not be copied in whole or part without the express permission of Crosstex International, Inc. © 2016.

## FULL LENGTH FACE SHIELD

- Optically clear, distortion-free wrap-around face shield.
- 1 ½" foam headband holds shield away from face; "floats" lightly on forehead, with no pressure on temples; vented for increased air flow.
- Protects mask and face from direct splatter; may prolong mask life.
- Sonically welded elastic headband for added strength.
- Anti-fog treatment on inside and outside of shield.
- Available in 7" and 9" options



## SECURE FIT

Secure Fit® Mask Technology creates a custom fit to reduce your exposure to airborne particulates. Secure Fit® Mask Technology is available in the following Crosstex face masks: Ultra® (ASTM Level 3), Procedural (ASTM Level 2), Isofluid® (ASTM Level 1)



Aluminum nose and chin pieces reduce gapping.

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## SELECT THE RIGHT MASK FOR THE TASK

Visit **CROSSTEXLEARNING.COM** to watch an informative **MASKENOMICS™ VIDEO**