

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. This filtration guide makes it easy to find the level of filtration required, including ASTM Level 1, 2 and 3.

LEVEL PERFORMANCE LEVELS

MAXIMUM FILTRATION

NIOSH Approved N95 Particulate Respirator
High Fluid Resistance 160 mmHg
Filtration Efficiency PFE = 99.9% @ 0.1 micron
Breathability - Delta P > 5.0 mm H₂O/cm²
Flame Spread Class 1

N95

Indicated for use when treating patients with airborne diseases such as TB or Covid-19 influenza.*

Meets EN 149: 2001 FFP2 NR.



Pictured: Isolator Plus® N95 Particulate Respirator



ASTM LEVEL 3

High Fluid Resistance 160 mmHg
Filtration Efficiency BFE ≥ 98%
PFE ≥ 98% @ 0.1 micron
Breathability - Delta P < 5.0 mm H₂O/cm²
Flame Spread 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 SecureFit® Technology



ASTM LEVEL 2

Moderate Fluid Resistance 120 mmHg
Filtration Efficiency BFE ≥ 98%
PFE ≥ 98% @ 0.1 micron
Breathability - Delta P < 5.0 mm H₂O/cm²
Flame Spread 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 SecureFit® Technology



ASTM LEVEL 1

Low Fluid Resistance 80 mmHg
Filtration Efficiency BFE ≥ 95%
PFE ≥ 95% @ 0.1 micron
Breathability - Delta P < 4.0 mm H₂O/cm²
Flame Spread 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 SecureFit® Technology



LOW PERFORMANCE

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

** Unless mask manufacturer certifies that the mask meets LEVEL performance Level 1

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



Pictured: Surgical Molded



MINIMUM PERFORMANCE

Utility Mask (Tissue/Tissue)
Physical Barrier Only
No LEVEL Performance Level
Filtration Efficiency 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 LEVEL Performance Levels for Surgical Masks™

FEATURE	EXPLANATION
Fluid Resistance	Mask resistance to penetration by synthetic blood under pressure (mmHg). Higher resistance = higher protection.
BFE - Bacterial Filtration Efficiency	Percentage of particles filtered out at a pore size of 1.0 - 5.0 microns (μ).
PFE - Submicron Particle Filtration Efficiency	Percentage of particles filtered out at a pore size of 0.1 - 1.0 microns (μ).
Delta P - Differential Pressure	Pressure drop across mask, or resistance to air flow in mmH ₂ O/cm ² . Greater resistance = better protection but less breathability.
Flame Spread	Measures the flame spread of the mask material.

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



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.



PATIENT SAFETY MASK w/ SHIELD

- U.S. Patent No.'s 6,185,740 and 6,523,170.
- Covers patient's eyes and nose.
- Protects fragile eye and mucosal tissue from flying particles, spray and splatter.
- Makes patients feel safe, but not "in the dark," with attached clear-vision shield.
- Form-fitting profile, flexible materials provide maximum access to mouth.
- White spunbond inner and outer layers.
- Fluid resistant.



*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: 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 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. © 2011.

SELECT THE RIGHT MASK FOR THE TASK