# FACE AND RESPIRATORY PROTECTION GUIDE








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The Best In Practice

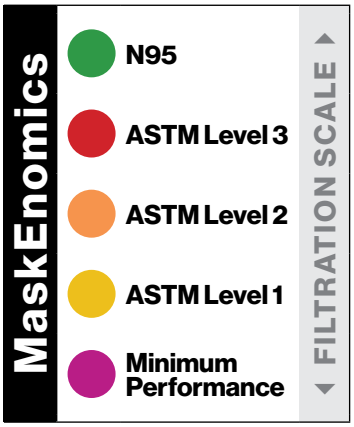
# Your Guide to Face and Respiratory Protection



## Selecting the appropriate respiratory and barrier protection is a critical component of your Personal Protective Equipment (PPE) protocol.

Although masks and respirators may all look similar, notable differences affecting their level of protection may exist. Understanding performance levels can help ensure whichever mask is selected will provide the appropriate protection to minimize the spread of potentially infectious diseases.

We make the selection process easy with the **MaskEnomics** rating system. Utilizing the National Institute for Occupational Safety and Health (NIOSH) and American Society for Testing and Materials (ASTM) classification standards, the MaskEnomics rating system is designed to assist you in your selection by categorizing all face protection by the level of filtration they provide, from minimum to maximum performance, and by the level of fluid protection delivered. Just look to the symbols displayed to find the appropriate level of filtration and protection for the procedure to be performed.




| Maximum Filtration Surgical N95 Respirator |
|---|
| Indicated for use when treating patients with airborne diseases such as TB |
| Approved by the National Institute for Occupational Safety and Health (NIOSH) |
| Cleared by the FDA as a surgical respirator |
| Fluid resistant |
| Filters out at least 95% of airborne particles |
| Forms a tight-fitting seal |
| Fit testing and medical evaluations are required |

| ASTM F2100 Standards | High Fluid Barrier ASTM Level 3 | Moderate Fluid Barrier ASTM Level 2 | Light Fluid Barrier ASTM Level 1 |
|---|---|---|---|
| Fluid resistance, mm Hg | 160 | 120 | 80 |
| BFE, at 3 microns | ≥98% | ≥98% | ≥95% |
| PFE, at 0.1 micron | ≥85% | ≥85% | ≥80% |
| Delta P, mm $H_2O/cm^2$ | <6.0 | <6.0 | <5.0 |
| Flame spread | Class 1 | Class 1 | Class 1 |

### WHAT THE TERMS[1] MEAN:

- **Fluid resistance** measures the ability to prevent fluids from traveling through the material. The higher the fluid resistance (filtration), the better the protection (Measured in mm Hg).
- **BFE (bacterial filtration efficiency)** measures the ability to prevent bacteria from traveling through the material (Measured at 3 microns).
- **PFE (particulate filtration efficiency)** measures the ability to prevent sub-micron particulates from traveling through the material. The size of the particles filtered is critical (Measured at 0.1 micron).
- **Delta P (differential pressure)** determines breathing resistance—the higher the Delta P, the less the breathability, but the better the filtration (Measured in mm $H2O/cm^2$).
- **Flame spread** is a ranking derived by laboratory standard test methodology of a material's propensity to burn rapidly and spread flames.

# Choose the Right Protection

The right protection level should always be used based upon the procedure being performed. Like patients, every procedure is unique. Use your clinical judgement to determine the appropriate level of barrier and respiratory protection based on the length of the procedure, the amount of fluid or aerosol, and standard precautions.

All technical specifications included in this guide are based on third-party testing conducted in accordance with ASTM Standard F2100 and represent the most current performance test data of these products.

## Maximum Filtration | Surgical N95 Respirators

### Indicated for use when treating patients with airborne diseases such as TB

*Although the N95 closely resembles a surgical mask, it is a respirator and must be used in accordance with all OSHA regulations regarding respiratory protection.*



**Crosstex™ Isolator™ Duckbill N95 Surgical Respirator**

- NIOSH-Approved Surgical N95/FDA-Cleared Respirator
- Indicated for use when treating patients with airborne diseases
- Meets guidelines for TB exposure control
- Fluid resistant to penetration by synthetic blood at 120 mmHg
- 99.9% BFE at 3 microns
- 99.9% PFE at 0.1 microns
- Large breathing chamber for more breathability
- Soft inner lining for increased comfort
- Malleable nose piece for better fit
- Not made with natural rubber latex



**Crosstex™ Isolator™ Molded N95 Surgical Respirator**

- NIOSH-Approved Surgical N95/FDA-Cleared Respirator
- Indicated for use when treating patients with airborne diseases
- Meets guidelines for TB exposure control
- Fluid resistant to penetration by synthetic blood at 160 mmHg
- 99.9% BFE at 3 microns
- 99.9% PFE at 0.1 microns
- Soft foam nose cushion and staple-free construction for increased comfort
- Contoured, malleable aluminum nose clip and latex-free polymer headstraps for better fit
- Durable, collapse-resistant double-shell design
- Not made with natural rubber latex

| N95 | | |
|---|---|---|
| Crosstex™ Isolator™ Duckbill N95 Surgical Respirator | 50/Box | GDBRESP, White |
| Crosstex™ Isolator™ Molded N95 Surgical Respirator | 20/Box | GMLRESP, White |



# Secure Fit™ Mask Technology

## Better Fit. Better Filtration. Better Protection.

Most procedures performed by dental clinicians using ultrasonic scalers, high speed handpieces, and air-water syringes have the potential for generating contaminated bioaerosols and splatter. The most effective means to reduce transmission of pathogenic organisms is the use of personal protection equipment such as gloves, masks, and eye protection.

Contaminants can bypass a mask in several ways. A well-fitting mask that can comform to any face shape or size, with little to no gapping, greatly reduces the risk of infection. Secure Fit™ Mask Technology, with adjustable nose and chin closures allows for a customized fit, increasing the effectiveness of mask protection.

- Proven to provide better protection than standard earloop masks.[2]
- Patented design is the first to feature both nose and chin strips for a customized fit.
- Flexible aluminum strips for a safe, secure fit around unique face shapes.
- Snug, custom fit minimizes dangerous gaps for superior protection.




## How to Secure your Secure Fit™ Mask:



**1.** Secure top edge.



**2.** Extend mask.



**3.** Secure chin closure.

# Choose the Right Protection

## ASTM Level 3 Surgical Earloop Masks

### Procedures where moderate to heavy amounts of fluid, spray and/or aerosols may be produced*

- Complex oral surgery
- Crown preparation
- Implant placement
- Periodontal surgery
- Use of ultrasonic scalers (Magnetostrictive and Piezo)
- Laser based applications[3]



**Crosstex™ Ultra™ Earloop Mask with Secure Fit™ Mask Technology**

- Fluid-resistant outer layer
- Fluid-resistant white inner layer
- Extra-long aluminum nose piece
- Malleable nose and chin strips for a customized fit



**Crosstex™ Ultra™ Sensitive Earloop Mask with Secure Fit™ Mask Technology**

- Fluid-resistant outer layer
- White, extra soft cellulose layer constructed to be gentle on the skin
- Free of chemicals, inks and dyes
- Extra-long aluminum nose piece
- Malleable nose and chin strips for a customized fit



**Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask with Secure Fit™ Mask Technology**

- Provides all the features of Crosstex™ Ultra™ Sensitive Earloop Mask with Secure Fit™ Mask Technology with FogFree™ Strip on inner layer
- Malleable nose and chin strips for a customized fit



**Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask with Shield with Secure Fit™ Mask Technology**

- Provides all the features of Crosstex™ Ultra™ Sensitive FogFree™ with Secure Fit™ Mask Technology with attached optically clear, distortion-free shield
- Malleable nose and chin strips for a customized fit



**Crosstex™ Ultra™ Sensitive Earloop Mask**

- Fluid-resistant outer layer
- White, extra soft cellulose layer constructed to be gentle on the skin
- Free of chemicals, inks and dyes
- Extra-long aluminum nose piece

*Also available: Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask, Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask w/Shield*



**Crosstex™ Ultra™ Earloop Mask**

- Fluid-resistant outer layer
- Fluid-resistant white inner layer
- Extra-long aluminum nose piece

*Also available: Crosstex™ Ultra™ FogFree™ Earloop Mask, Crosstex™ Ultra™ FogFree™ Earloop Mask w/Shield*

| ASTM LEVEL 3 | | |
|---|---|---|
| Crosstex™ Ultra™ Earloop Mask with Secure Fit™ Mask Technology | 50/Box | GCFBKSF, Black<br>GCFCXUSF, Blue |
| Crosstex™ Ultra™ Sensitive Earloop Mask with Secure Fit™ Mask Technology | 50/Box | GCFCXSSF, White |
| Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask with Secure Fit™ Mask Technology | 40/Box | GCFCXSFSF, White |
| Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask with Shield with Secure Fit™ Mask Technology | 25/Box | GCPWSSF, White |
| Crosstex™ Ultra™ Sensitive Earloop Mask | 50/Box | GCFCXS, White |
| Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask | 40/Box | GCFCXSF, White |
| Crosstex™ Ultra™ Sensitive FogFree™ Earloop Mask with Shield | 25/Box | GCPWS, White |
| Crosstex™ Ultra™ Earloop Mask | 40/Box | GCFCXU, Blue |
| Crosstex™ Ultra™ FogFree™ Earloop Mask | 40/Box | GCFCX, Blue |
| Crosstex™ Ultra™ FogFree™ Earloop Mask with Shield | 25/Box | GCPW, Blue |

# Choose the Right Protection

## ASTM Level 2 Surgical Earloop Masks

### Procedures where light to moderate amounts of fluid, spray and/or aerosols may be produced*

- **Limited oral surgery**
- **Endodontics**
- **Prophylaxis**
- **Restoratives/compositives**
- **Sealants**
- **Scaling and root planning**



**Crosstex™ Procedural Earloop Mask with Secure Fit™ Mask Technology**

- Fluid-resistant outer layer
- Fluid-resistant white inner layer
- Extra-long aluminum nose piece
- Malleable nose and chin strips for a customized fit



**Crosstex™ Procedural Earloop Mask**

- Fluid-resistant outer layer
- Fluid-resistant white inner layer
- Extra-long aluminum nose piece



**Crosstex™ Surgical Tie-On Mask**

- Fluid-resistant outer layer
- Fluid-resistant white inner layer
- Extra-large panel for surgical procedures
- Extra-long aluminum nose piece

*Made outside of the USA*

| ASTM LEVEL 2 | | |
|---|---|---|
| Crosstex™ Procedural Earloop Mask with Secure Fit™ Mask Technology | 50/Box | GCPBLSF, Blue<br>GCPLVSF, Lavender<br>GCPPKSF, Pink |
| Crosstex™ Procedural Earloop Mask | 50/Box | GCPBL, Blue<br>GCPLV, Lavender<br>GCPPK, Pink<br>GCPYE, Yellow |
| Crosstex™ Procedural Earloop Mask | 100/Box | GCPBL100, Blue |
| Crosstex™ Surgical Tie-On Mask (Made outside the USA) | 50/Box | GCS, Blue |



# Choose the Right Protection

## ASTM Level 1 Surgical Earloop Masks

### Procedures where low amounts of fluid, spray and/or aerosols may be produced*

- Patient exams
- Operatory cleaning/maintenance
- Impressions
- Lab trimming, finishing, and polishing
- Orthodontics



**Crosstex™ Isofluid™ Earloop Mask with Secure Fit™ Mask Technology**

- Fluid-resistant outer layer
- White tissue inner layer
- Extra-long aluminum nose piece
- Malleable nose and chin strips for a customized fit



**Crosstex™ Isofluid™ FogFree™ Earloop Mask with Secure Fit™ Mask Technology**

- Provides all features of Crosstex™ Isofluid™ Earloop Mask with Secure Fit™ Mask Technology with addition of FogFree™ Strip on inner layer
- Malleable nose and chin strips for a customized fit



**Crosstex™ Isofluid™ FogFree™ Earloop Mask with Shield with Secure Fit™ Mask Technology**

- Provides all features of Crosstex™ Isofluid™ Earloop Mask with Secure Fit™ Mask Technology with attached optically clear, distortion-free face shield
- Malleable nose and chin strips for a customized fit



**Crosstex™ Isofluid™ Plus Pure Mask with Secure Fit™ Mask Technology**

- White, extra soft cellulose layer constructed to be gentle on the skin
- Fluid-resistant outer layer
- Extra-long aluminum nose piece
- Free of chemicals, inks and dyes
- Malleable nose and chin strips for a customized fit



**Crosstex™ Isofluid™ Plus Earloop Mask**

- White, extra soft cellulose layer constructed to be gentle on the skin
- Fluid-resistant outer layer
- Extra-long aluminum nose piece
- Free of chemicals, inks and dyes

*Also available: Crosstex™ Isofluid™ FogFree™ Earloop Mask, Crosstex™ Isofluid™ FogFree™ Earloop Mask w/Shield*



**Crosstex™ Isofluid™ Earloop Mask**

- Fluid-resistant outer layer
- White tissue inner layer
- Extra-long aluminum nose piece



**Crosstex™ Le Petit Masque**

- Fluid-resistant pink outer layer
- Soft white spunbound inner layer
- Measures 6.25 in x 3.5 in (15.875 cm x 8.89 cm)

*Made outside of the USA*

| ASTM LEVEL 1 | | |
|---|---|---|
| Crosstex™ Isofluid™ Earloop Mask with Secure Fit™ Mask Technology | 50/Box | GCIBLSF, Blue<br>GCILVSF, Lavender<br>GCIPKSF, Pink |
| Crosstex™ Isofluid™ FogFree™ Earloop Mask with Secure Fit™ Mask Technology | 40/Box | GCICXBSF, Blue |
| Crosstex™ Isofluid™ FogFree™ Earloop Mask with Shield with Secure Fit™ Mask Technology | 25/Box | GCIPWBSF, Blue |
| Crosstex™ Isofluid™ Plus Pure Earloop Mask with Secure Fit™ Mask Technology | 50/Box | GPLUSWHSF, White |
| Crosstex™ Isofluid™ Plus Earloop Mask | 50/Box | GPLUSBL, Blue<br>GPLUSKA, Kaleidoscope<br>GPLUSPK, Pink |
| Crosstex™ Isofluid™ FogFree™ Earloop Mask | 40/Box | GCICXB, Blue<br>GCICXS, Sapphire<br>GCICXT, Turquoise |
| Crosstex™ Isofluid™ FogFree™ Earloop Mask with Shield | 25/Box | GCIPWB, Blue<br>GCIPWS, Sapphire<br>GCIPWT, Turquoise |
| Crosstex™ Isofluid™ Earloop Mask | 50/Box | GCIBL, Blue<br>GCIGR, Green<br>GCILV, Lavender<br>GCIPK, Pink<br>GCISA, Sapphire<br>GCITE, Teal<br>GCITQ, Turquoise |
| Crosstex™ Isofluid™ Earloop Mask | 100/Box | GCIBL100, Blue |
| Crosstex™ Le Petit Masque (Made outside the USA) | 50/Box | GCAPTPK, Pink |

# Choose the Right Protection

## Minimum Performance

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



### Crosstex™ Patient Safety Mask with Shield

- Covers patient's eyes and nose.

| Minimum Performance | | |
|---|---|---|
| Crosstex™ Patient Safety Mask with Shield | 25/Box | GCPAT, White |

## Additional Face Protection Products



### Crosstex™ Face Shield

- Optically clear, distortion-free wrap-around face shield
- 1.5 in 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




### See Clear® Lens Cleaning Wipes

- Effective cleaning for eyewear and face shields
- 4 in x 5.5 in wipes are anti-fog, anti-static
- Will not scratch, dries quickly
- Ref #SEEC

*Made outside of the USA*

| Face Shield | | |
|---|---|---|
| Full length 9 in Clear Face Shield | 18/Box | GCSS9 |
| ¾ length 7 in Clear Face Shield | 18/Box | GCSS |
| Full length 9 in Clear Face Shield | 72/Box | GCSS9B |
| ¾ length 7 in Clear Face Shield | 72/Box | GCSSB |

| See Clear® Lens Cleaning Wipes | | |
|---|---|---|
| Individual Wipe<br>6 in x 5 in (15.2 cm x 12.7 cm) | 120/Box | SEEC |

MADE IN USA

Crosstex™ Surgical Earloop Face Masks and Crosstex™ Face Shields are proudly made in the USA.

## For more information, visit HuFriedyGroup.com

*DHCPs should use their clinical judgement to determine the appropriate level of barrier and respiratory protection based on the length of the procedure, the amount of fluid or aerosol generated, and standard precautions.

1) ASTM Standard specification for performance of materials used in medical face masks – F2100-11 Standard; 2) As specified in Test Method F 1862; 3) Masks are considered a secondary control and are not meant to replace recommended primary engineering controls for laser plume exposure.

2) Data from Aerosol Mechanics Laboratory, G.C. Smaldone, Stony Brook University Medical Center, New York.

CAUTION: Like patients, every procedure is unique. Use your clinical judgment to determine the appropriate level of barrier protection based on the length of the procedure, the amount of fluid or aerosol, and standard precautions.

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