

FACE AND RESPIRATORY PROTECTION GUIDE



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	≥98%	≥98%	≥95%
Delta P, mm H ₂ O/cm ²	<5.0	<5.0	<4.0
Flame spread	Class 1	Class 1	Class 1

WHAT THE TERMS¹ 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/cm²).
- **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



Crosstex™ Isolator™ Plus 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 160mmHg
- Malleable nose and chin pieces
- Inner/outer fluid-resistant layers
- Chin pocket construction

N95

Crosstex™ Isolator™ Duckbill N95 Surgical Respirator	50/Box	GDBRESP, White
Crosstex™ Isolator™ Molded N95 Surgical Respirator	20/Box	GMLRESP, White
Crosstex™ Isolator™ Plus N95 Particulate Respirator	28/Box	GPRN95, Blue/White Stripe

Fit Test Kits

Saccharin N95 Fit Test Kit	1/Box	GQLFT-S
Bitrex® N95 Fit Test Kit	1/Box	GQLFT-B



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 conform 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 are produced

- Complex oral surgery
- Periodontal surgery
- Crown preparation
- Use of ultrasonic scalers (Magnetostriptive and Piezo)
- Implant placement
- Laser based applications³



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 hypoallergenic inner cellulose layer
- Extra soft – will not lint, tear or shred
- 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 hypoallergenic inner cellulose layer
- Extra soft – will not lint, tear or shred
- 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	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 are 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 GCPLVSF, Lavender GCPPKSF, Pink
Crosstex™ Procedural Earloop Mask	50/Box	GCPBL, Blue GCPLV, Lavender GCPPK, Pink 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 are produced

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



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 hypoallergenic inner cellulose layer
- Fluid-resistant outer layer
- Extra-long aluminum nose piece
- Extra soft – will not lint, tear or shred
- Malleable nose and chin strips for a customized fit



Crosstex™ Isofluid™ Plus Earloop Mask

- White hypoallergenic inner cellulose layer
- Fluid-resistant outer layer
- Extra-long aluminum nose piece
- Extra soft – will not lint, tear or shred

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 GCILVSF, Lavender 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 GPLUSKA, Kaleidoscope GPLUSPK, Pink
Crosstex™ Isofluid™ FogFree™ Earloop Mask	40/Box	GCICXB, Blue GCICXS, Sapphire GCICXT, Turquoise
Crosstex™ Isofluid™ FogFree™ Earloop Mask with Shield	25/Box	GCIPWB, Blue GCIPWS, Sapphire GCIPWT, Turquoise
Crosstex™ Isofluid™ Earloop Mask	50/Box	GCIBL, Blue GCIGR, Green GCILV, Lavender GCIPK, Pink GCISA, Sapphire GCITE, Teal 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™ Isolite™ Earloop Mask

- Outer facial tissue layer
- White facial tissue inner layer
- Extra-long aluminum nose piece

Minimum Performance

Crosstex™ Isolite™ Earloop Mask 50/Box [GCLBL, Blue](#)
[GCLPK, Pink](#)

Crosstex™ Patient Safety Mask with Shield 25/Box [GCPAT, White](#)



Crosstex™ Patient Safety Mask with Shield

- Covers patient's eyes and nose.

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

See Clear® Lens Cleaning Wipes

Individual Wipe 120/Box [SEEC \(D25431\)](#)
6 in x 5 in (15.2 cm x 12.7 cm)

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

For more information, visit [HuFriedyGroup.com](https://www.HuFriedyGroup.com)

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.

Hu-Friedy Mfg. Co., LLC, 1666 E. Touhy Ave., Des Plaines, IL 60018 | [HuFriedyGroup.com](https://www.HuFriedyGroup.com)

All company and product names are trademarks of Hu-Friedy Mfg. Co., LLC, its affiliates or related companies, unless otherwise noted. Marks not registered in all jurisdictions. See Clear® is a registered trademark of Professional Disposables International, Inc. Bitrex® is a registered trademark of Johnson Matthey/MacFarlan Smith.

©2022 Hu-Friedy Mfg. Co., LLC. All rights reserved. DLIT01615 Rev A 0122