

# The Right Mask for the Right Task!



**MaskEnomics:**  
the Crosstex  
guide to face  
mask selection  
and use

(aligned with current  
ASTM F2100-11 Standard)

**CROSSTEX**<sup>®</sup>  
A CANTEL MEDICAL COMPANY

**PROTECTS**<sup>sm</sup>

888-276-7783 | [crosstex.com](http://crosstex.com)

# WHY CROSSTEX®?

## Enhanced Safety and Performance!

Crosstex offers a wide variety of mask designs, fit and filtration to match the protection needs for each procedure or risk level. The Crosstex MaskEnomics® filtration guide makes it easy to select the level of filtration required, including ASTM Level 1, 2 and 3 and N95 particulate respiration. From minimum performance masks for dry, short procedures, to our maximum filtration mask, Isolator Plus, Crosstex has the right mask for the task!

See back cover for ordering information.



### MAXIMUM FILTRATION

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

#### N95



#### Isolator Plus N95 Particulate Respirator

- NIOSH approved N95 Respirator.
- Meets guidelines for TB exposure control
- Resistance to penetration by synthetic blood: 160mmHg.
- PFE = 99.9% @ 0.1 micron.
- Malleable nose and chin pieces.
- Inner/outer fluid resistant layers.
- Chin pocket construction.

### ASTM LEVEL 3

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

Meets EN14683 Rating – Type IIR Standard.

#### LEVEL 3



#### Ultra™ Sensitive Earloop w/ SecureFit® Technology

- BFE = 99.9% @ 3 microns.
- PFE = 99.9% @ 0.1 micron.
- Patent pending design with aluminum strip under chin for custom fit.
- Fluid resistant outer layer.
- White hypoallergenic inner cellulose layer.
- Extra soft – will not link, tear or shred.
- Free of chemicals, inks and dyes.
- Extra-long aluminum nose piece.



### ASTM LEVEL 2

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

Meets EN14683 Rating – Type IIR Standard.

#### LEVEL 2



#### Procedural Earloop w/ SecureFit® Technology

- BFE = 99.9% @ 3 microns.
- PFE = 99.7% @ 0.1 micron.
- Patent pending design with aluminum strip under chin for custom fit.
- Fluid resistant outer layer.
- Fluid resistant white inner layer.
- Extra-long aluminum nose piece.



### ASTM LEVEL 1

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

Meets EN14683 Rating – Type II Standard.

#### LEVEL 1



#### Isofluid® Earloop w/ SecureFit® Technology

- BFE = 98.4% @ 3 microns.
- PFE = 98.5% @ 0.1 micron.
- Patent pending design with aluminum strip under chin for custom fit.
- Fluid resistant outer layer.
- White tissue inner layer.
- Extra-long aluminum nose piece.



### LOW PERFORMANCE

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.

#### LEVEL 0



#### Surgical Molded

- PFE = 98.7% @ 4.2 microns.
- Splash resistant barrier.
- Flared edge prevents irritation.
- Soft, flexible nose piece.



### 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.

#### LEVEL 0



#### Isolite® Earloop

- BFE = 98% @ 3 microns.
- PFE = 98.7% @ 4.2 microns.
- Outer facial tissue layer.
- White facial tissue inner layer.
- Extra-long aluminum nose piece.





# SECURE FIT Technology

## Custom Fit to Reduce Exposure to Airborne Particulates

A recent study published in *The American Journal of Infection Control* found that a custom-fitting face mask provides up to **100-fold greater reduction in exposure** to potentially infectious particulates than a loose-fitting mask!\*. The patent-pending design of SecureFit® masks includes aluminum nose and chin pieces that significantly reduce gapping at the top, sides and bottom of the mask. Conforms to any size or shape face!

\*Diaz K, Smaldone G. Quantifying exposure risk: Surgical masks and respirators. *The American Journal of Infection Control* 2010;38:501-8

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.



## FEATURE GUIDE TO CROSSTEX EARLOOP/TIE-ON FACE MASKS

	A	B	C	D	E	F	G	H	I	J	K	L	M
Ultra™ Sensitive Earloop w/ SecureFit® Technology	•	•				•	•	•	•				•
Ultra™ Sensitive FogFree® Earloop w/ SecureFit® Technology	•	•		•	•	•	•	•	•				•
Ultra™ Sensitive FogFree® Earloop w/ Shield w/SecureFit® Technology	•	•		•	•	•	•	•	•			•	•
Ultra™ Earloop w/ SecureFit® Technology	•	•				•	•	•	•			•	•
Ultra™ Sensitive Earloop	•	•				•	•	•	•				
Ultra™ Sensitive FogFree® Earloop	•	•		•	•	•	•	•	•				
Ultra™ Sensitive FogFree® Earloop w/ Shield	•	•		•	•	•	•	•	•			•	
Ultra™ Earloop	•	•				•	•	•	•			•	
Ultra™ FogFree® Earloop	•	•		•	•	•	•	•	•			•	
Ultra™ FogFree® Earloop w/ Shield	•	•		•	•	•	•	•	•			•	•
Procedural Earloop w/ SecureFit® Technology	•	•				•	•	•	•			•	•
Procedural Earloop	•	•				•	•	•	•			•	
Surgical Tie-on	•	•				•	•	•	•			•	
Isofluid® Earloop w/ SecureFit® Technology	•	•				•	•	•	•			•	•
Isofluid FogFree® Earloop w/ SecureFit® Technology	•	•				•	•	•	•			•	•
Isofluid FogFree® Earloop w/ Shield w/SecureFit® Technology	•	•				•	•	•	•			•	•
Isofluid® Earloop	•	•				•	•	•	•			•	
Isofluid FogFree® Earloop	•	•				•	•	•	•			•	
Isofluid FogFree® Earloop w/ Shield	•	•				•	•	•	•			•	•
Isofluid® Plus Earloop	•	•				•	•	•	•			•	•
Isolite® Earloop	•	•	•			•	•	•	•			•	•



### Ultra™ Sensitive FogFree® Earloop w/ SecureFit® Technology

- BFE = 99.9% @ 3 microns.
- PFE = 99.9% @ 0.1 micron.
- Provides all the features of Ultra™ Sensitive with SecureFit® technology with FogFree® strip on inner layer.



### Ultra™ Sensitive FogFree® Earloop w/ Shield w/ SecureFit® Technology

- BFE = 99.9% @ 3 microns.
- PFE = 99.9% @ 0.1 micron.
- Provides all the features of Ultra™ Sensitive FogFree® with SecureFit® technology with attached optically clear, distortion-free shield.



### Ultra™ Earloop w/ SecureFit® Technology

- BFE = 99.9% @ 3 microns.
- PFE = 99.8% @ 0.1 micron.
- Patent pending design with aluminum strip under chin for tight, custom fit.
- Fluid resistant white inner layer.
- Extra-long aluminum nose piece.
- Fluid resistant outer layer.



### Procedural Earloop

- BFE = 99.9% @ 3 microns.
- PFE = 99.7% @ 0.1 micron.
- Fluid resistant outer layer.
- Fluid resistant white inner layer.
- Extra-long aluminum nose piece.



### Surgical Tie-on

- BFE = 98% @ 1 micron.
- PFE = 99.2% @ 0.1 micron.
- Fluid resistant outer layer.
- Fluid resistant white inner layer.
- Extra-large panel for surgical procedures.
- Extra-long aluminum nose piece.



### Isofluid FogFree® Earloop w/ SecureFit® Technology

- BFE = 98.4% @ 3 microns.
- PFE = 98.5% @ 0.1 micron.
- Provides all features of SecureFit® Isofluid with addition of FogFree® strip on inner layer.



### Isofluid FogFree® Earloop w/ Shield w/ SecureFit® Technology

- BFE = 98.4% @ 3 microns.
- PFE = 98.5% @ 0.1 micron.
- Provides all features of SecureFit® Isofluid FogFree® with attached optically clear, distortion-free face shield.



### Isofluid® Earloop

- BFE = 98.4% @ 3 microns.
- PFE = 98.5% @ 0.1 micron.
- Fluid resistant outer layer.
- White tissue inner layer.
- Extra-long aluminum nose piece.



## Additional Face Protection Products



### Face Shield

- Optically clear, distortion-free wrap-around face shield.
- 1 1/2" 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.



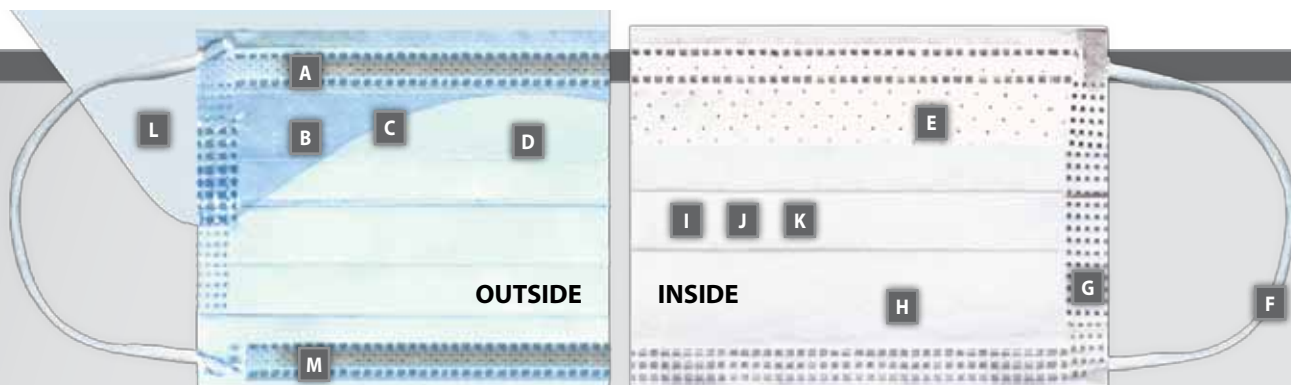
### IC Protective Eyewear

- Patented mask loop connector hook for attaching mask to eyewear and for aseptic removal.
- Maximum UV protection.
- High impact, scratch resistant polycarbonate (meets ANSI 87.1-1989 + CSA standards).
- Distortion-free one-piece lens with side shields.
- Anti-fog, anti-static, no-glare.



### Also available:

Isofluid FogFree® Earloop  
Isofluid FogFree® Earloop with Shield



**A** Extra-long, enclosed aluminum nose piece forms a strong seal for maximum protection.

**B** Spunbond outer layer material for maximum protection against fluids.

**C** Facial tissue outer layer is ultrasoft and odorless.

**D** Vapor barrier uniquely placed on outside layer to prevent fogging.

**E** FogFree/No-Fog strip blocks and absorbs moisture; forms a strong seal to prevent fogging; cushions nose ridge.

**F** Secure Loop earloops are soft, strong, fit comfortably, and attached to outside of mask to eliminate irritation.

**G** Soft-Bond ultrasonics ensures strongest construction, eliminating holes and defects.

**H** Highest quality filter media for best ASTM rating, filtration value and breathability.

**I** Cellulose inner layer for sensitive skin (white, extra soft, hypoallergenic) will not lint, tear or shred; void of dyes, inks and chemicals, which can cause irritation.

**J** Tissue inner layer is made of white, soft facial tissue.

**K** Spunbond inner layer made of white, fluid-resistant material.

**L** Attached wrap-around face shield is optically clear and distortion-free.

**M** SecureFit® aluminum strip under chin significantly reduces gapping at the top, sides and bottom of the mask.

All Crosstex face masks are latex free.



#### Ultra™ Sensitive Earloop

- BFE = 99.9% @ 3 microns.
- PFE = 99.9% @ 0.1 micron.
- 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:

Ultra™ Sensitive FogFree® Earloop  
Ultra™ Sensitive FogFree® Earloop with Shield



#### Ultra™ Earloop

- BFE = 99.9% @ 3 microns.
- PFE = 99.8% @ 0.1 micron.
- Fluid resistant outer layer.
- Fluid resistant white inner layer.
- Extra-long aluminum nose piece.



#### Also available:

Ultra™ FogFree® Earloop  
Ultra™ FogFree® Earloop with Shield



#### Isofluid® Plus Earloop

- BFE = 99.8% @ 3 microns.
- PFE = 99.5% @ 0.5 micron.
- Fluid resistant outer layer.
- White hypoallergenic inner cellulose layer.
- Extra-long aluminum nose piece.
- Extra soft – will not lint, tear or shred.



**For ordering information, please see back cover.**

### Award Winning Crosstex Masks



2008 2010  
2009 2011



#### The Dental Advisor Editor's Choice:

- ▶ Ultra™ Sensitive +++++½
- ▶ SecureFit® +++++



#### The Dental Advisor:

- ▶ Patient Safety Mask with Shield +++++

## Patient Protection



#### Series 2000 Elan Metal Frame

- Gold metal frame
- Brow guards protect eyes from above.



#### See-Clear™ Eyeglass Wipes

- Effective cleaning for eyewear and face shields.
- 4" x 5.5" wipes are anti-fog, anti-static.
- Will not scratch, dries quickly.



#### Patient Safety Mask with 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.



Safety eyewear does not provide unlimited eye protection. It will not protect against severe impact hazards. For your own protection, read instructions included with eyewear completely.





### Understanding ASTM Face Mask Performance Levels

Selecting the appropriate mask for a particular procedure is a critical component of your Personal Protective Equipment (PPE) protocol. Although masks may look similar, each mask has notable differences affecting the quality and level of filtration. Understanding the ASTM performance level of each face mask can help make the

selection process easier and ensure your mask will provide the appropriate filtration.

Medical face mask materials covered under the most current ASTM specifications are designated as one or more of the following performance levels based on the barrier performance properties of the materials used:

	ASTM Level 1	ASTM Level 2	ASTM Level 3
FLUID RESISTANCE, mmHg	80	120	160
BFE	≥95%	≥98%	≥98%
PFE, @ 0.1 micron	≥95%	> 98%	> 98%
DELTA P, mm H <sub>2</sub> O/cm <sup>2</sup>	< 4.0	< 5.0	< 5.0
FLAME SPREAD	Class 1	Class 1	Class 1

### What the terms mean:

**FLUID RESISTANCE\*** represents the mask's resistance to penetration by synthetic blood under pressure (mmHg). It measures the ability of a mask's material construction to minimize fluids from traveling through the material and potentially coming into contact with the wearer. The higher the fluid resistance (filtration), the better the protection.

**BFE** (Bacterial Filtration Efficiency) represents the percentage of bacteria filtered out at a spore size of 1-5 microns. It is the measure of the efficiency of the mask in filtering bacteria passing through it.

**PFE** (Particulate Filtration Efficiency) represents the percentage of particles filtered out at a spore size of 0.1-1.0 microns. PFE is the measure of the efficiency of the mask in filtering particles passing through it. The size of the particles filtered is critical.

**DELTA P** (Differential Pressure) represents the pressure drop across the mask or resistance to air flow in mmH<sub>2</sub>O/cm<sup>2</sup>. This determines breathing resistance – the higher the Delta P, the less the breathability, but the better the filtration.

**FLAME SPREAD** measures flame spread of the mask material.

SOURCE: ASTM Standard specification for performance of materials used in medical face masks – F2101-11 Standard. \*As specified in Test Method F 1862.



Crosstex makes the selection process easy with the MaskEnomics rating system, designed to assist you in the decision making process by categorizing all Crosstex face masks by the level of filtration they provide... from minimum to maximum performance. Just look to the symbols displayed to find the appropriate level of filtration and protection for the procedure to be performed.

# Ordering Information

## Masks and Face Protection

Description Quantity Ref. #

**LEVEL 3 N95** **Isolator Plus N95 Particulate Respirator**  
Blue/white stripe 28/Box GPRN95

**LEVEL 3** **Ultra™ Sensitive Earloop w/ SecureFit® Technology**  
White 50/Box GCFCXSSF **NEW!**

**Ultra™ Sensitive FogFree® Earloop w/ SecureFit® technology**  
White 40/Box GCFCXSFSF **NEW!**

**Ultra™ Sensitive FogFree® Earloop w/ Shield w/ SecureFit® technology**  
White 25/Box GCPWSSF **NEW!**

**Ultra™ Earloop w/ SecureFit® Technology**  
Blue 50/Box GCFCXUSF

**Ultra™ Sensitive Earloop**  
White 50/Box GCFCXS

**Ultra™ Sensitive FogFree® Earloop**  
White 40/Box GCFCXS

**Ultra™ Sensitive FogFree® Earloop w/ Shield**  
White 25/Box GCPWS

**Ultra™ Earloop**  
Blue 40/Box GCFCXU

**Ultra™ FogFree® Earloop**  
Blue 40/Box GCFCX

**Ultra™ FogFree® Earloop w/ Shield**  
Blue 25/Box GCPW

**LEVEL 2** **Procedural Earloop w/ SecureFit® Technology**  
Blue 50/Box GCPBLSF  
Pink 50/Box GCPPKSF

**Procedural Earloop**  
Blue 50/Box GCPBL  
Lavender 50/Box GCPLV  
Pink 50/Box GCPPK  
Yellow 50/Box GCPYE

**Surgical Tie-on**  
Blue 50/Box GCS

**LEVEL 1** **Isofluid® Earloop w/ SecureFit® Technology**  
Blue 50/Box GCIBLSF  
Pink 50/Box GCIPKSF

**Isofluid FogFree® Earloop w/ SecureFit® Technology**  
Blue 40/Box GCICXBSF **NEW!**

**Isofluid FogFree® Earloop w/ Shield w/ SecureFit® Technology**  
Blue 25/Box GCIPWBSF **NEW!**

## Masks and Face Protection

Description Quantity Ref. #

**LEVEL 1** **Isofluid® Earloop**  
Blue 50/Box GCIBL  
Green 50/Box GCIGR  
Lavender 50/Box GCILV  
Pink 50/Box GCIPK  
Sapphire 50/Box GCISA  
Teal 50/Box GCITE  
Topaz 50/Box GCITZ  
Turquoise 50/Box GCITQ

**Isofluid FogFree® Earloop**  
Blue 40/Box GCICXB  
Sapphire 40/Box GCICXS  
Topaz 40/Box GCICXZ  
Turquoise 40/Box GCICXT

**Isofluid FogFree® Earloop w/ Shield**  
Blue 25/Box GCIPWB  
Sapphire 25/Box GCIPWS  
Topaz 25/Box GCIPWZ  
Turquoise 25/Box GCIPWT

**Isofluid® Plus Earloop**  
Blue 50/Box GPLUSBL  
Kaleidoscope 50/Box GPLUSKA  
Pink 50/Box GPLUSPK

**Surgical Molded**  
Blue 50/Box GCBL  
Pink 50/Box GCPK

**Isolite® Earloop**  
Blue 50/Box GCLBL  
Pink 50/Box GCLPK

**Face Shield**  
Clear 24/Box GCSS

**Patient Safety Mask w/ Shield**  
White 25/Box GCPAT

**IC Protective Eyewear**  
**Series 2000 Elan Metal Frame**  
Gold 1 IC2000

**See-Clear™ Eyeglass**  
Wipes 120/Box SEEC

Crosstex 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.

**CROSSTEX®** | **PROTECTS™**  
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