

SECURE FIT™ MASK TECHNOLOGY



**The right mask to protect  
you against laser plume**



**CROSSTEX**  
A CANTEL MEDICAL COMPANY

## Engineered to protect what's behind the mask.

**With laser dentistry on the rise, dental professionals are facing a new set of occupational health risks – transmission of disease through laser plume.<sup>1</sup> Using a comfortable, custom-fitting ASTM Level 3 Ultra™ Sensitive FogFree™ Mask with Secure Fit™ Mask Technology can help to minimize some of the health risks associated with laser plume exposure.\***

### **?** Did you know

- Ninety-five percent of laser plume is made up of water, but the remaining five percent contains potentially hazardous bioaerosols including cellular debris, blood fragments, and bacteria.<sup>2</sup>
- Laser plume can cause respiratory problems<sup>3</sup>, eye, nose and throat irritation nausea and headaches.<sup>4</sup>
- Laser plume has tested positive for Staphylococcus, Corynebacterium, and Neisseria.<sup>5</sup>
- Inhaling laser plume from one gram of tissue is equivalent to smoking six unfiltered cigarettes.<sup>6</sup>
- Ultra™ Sensitive FogFree™ Earloop Masks with Secure Fit™ Mask Technology are appropriate for use in operatories that contain and use surgical lasers and electrosurgical units.

<sup>1</sup> Garden, Jerome M. "Viral Disease Transmitted by Laser-Generated Plume (Aerosol)." *Archives of Dermatology*, vol. 138, no. 10, 2002, p. 1303.

<sup>2</sup> Ulmer, Brenda C. "The Hazards of Surgical Smoke." *AORN Journal*, vol. 87, no. 4, 2008, pp. 721–738

<sup>3</sup> "Health Hazard Evaluation Report: HETA-85-126-1932, Bryn Mawr Hospital, Bryn Mawr, Pennsylvania." 1988.

<sup>4</sup> Steege, Andrea L., et al. "Secondhand Smoke in the Operating Room? Precautionary Practices Lacking for Surgical Smoke." *American Journal of Industrial Medicine*, vol. 59, no. 11, 2016, pp. 1020–1031.

<sup>5</sup> Capizzi, Peter J., et al. "Microbiologic Activity in Laser Resurfacing Plume and Debris." *Lasers in Surgery and Medicine*, vol. 23, no. 3, 1998, pp. 172–174.

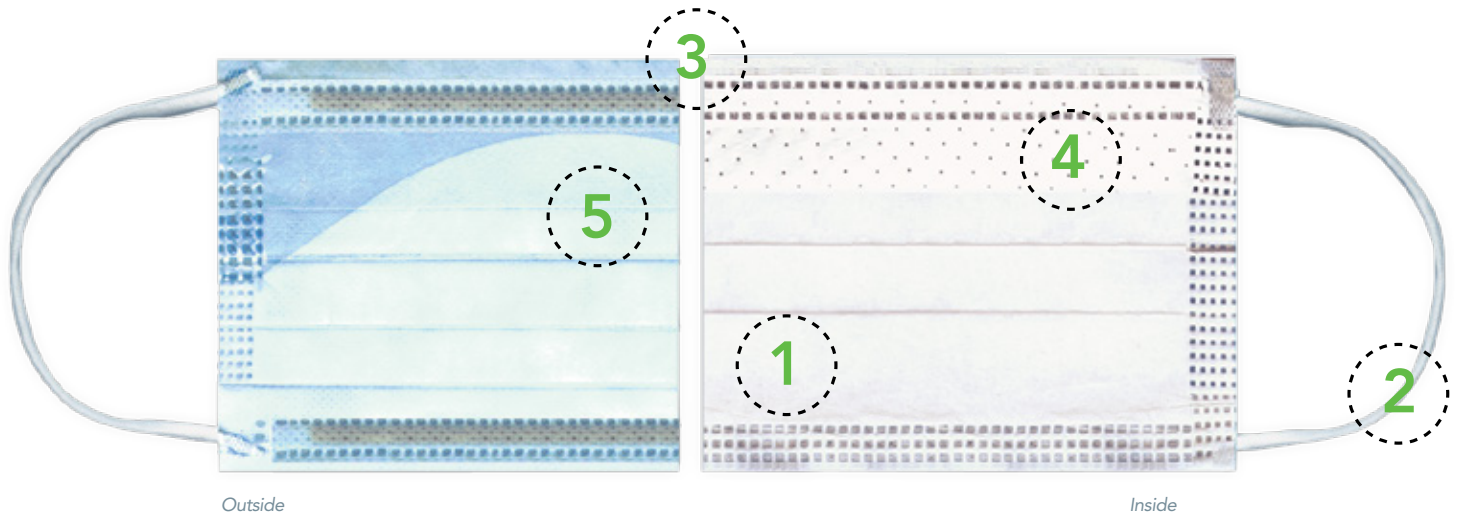
<sup>6</sup> Yoshifumi, Tomita, et al. "Mutagenicity of Smoke Condensates Induced by CO<sub>2</sub>-Laser Irradiation and Electrocauterization." *Mutation Research/Genetic Toxicology*, vol. 89, no. 2, 1981, pp. 145–149.

\*Masks are considered a secondary control and are not meant to replace recommended primary engineering controls for laser plume exposure.

### Secure Fit™ Mask Technology

- Contaminants can bypass a mask in several ways. A well-fitting mask that can conform to any face shape or size, can greatly reduce the risk of infection. Ultra™ Sensitive FogFree™ Masks with Secure Fit™ Mask Technology allow for a customized fit, increasing the effectiveness of mask protection.
  - Extra-long nose closure allows for a strong seal around nose and cheekbones for maximum protection.
  - Malleable nose and chin closures help minimize the potential of inhaling airborne contaminants by reducing gapping around the borders of the mask.
  - Sof-Bond™ Ultrasonic Mask assembly ensures strongest construction and highest quality, eliminating holes and defects.
- ➔ **Flexible aluminum strips above the nose and below the chin create additional breathing space and allow for a custom fit, regardless of face shape or size.**
- ➔ **Innovative design significantly reduces gapping at top, bottom, and sides.**





## Ultimate comfort

Comfortable Ultra™ Sensitive Fog Free™ Masks facilitate adherence to infection prevention best practices, reducing exposure risk and increasing protection without giving up comfort.

1. Extra soft, white hypoallergenic inner cellulose layer will not lint, tear or shred for ultimate comfort.
2. The flat earloops provide a comfortable fit and are attached to the outside of the mask to eliminate irritation.
3. Free of latex, fiberglass, chemicals, inks and dyes to minimize concerns with skin sensitivities.
4. Fog Free™ Masks with strip on inner layer blocks and absorbs moisture; forms a strong seal preventing fogging of eyewear while it cushions the nose ridge.
5. Unique vapor barrier on the outside layer blocks moisture and prevents fogging.

## Product ordering information

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

Ref. #	Description	Quantity
GCFXSF	White	40/Box

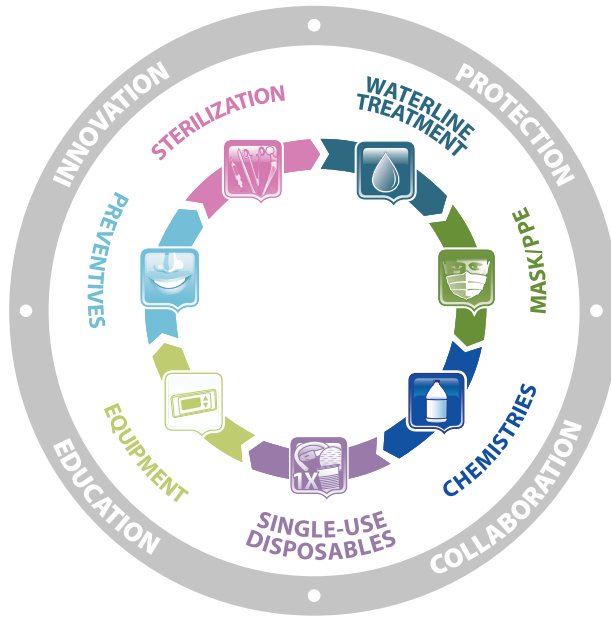
## Ultimate protection

Ultra™ Sensitive Fog Free™ Masks with Secure Fit™ Mask Technology are engineered to protect what's behind the mask and are subjected to rigorous testing to ensure ultimate protection.



- Complex oral surgery
- Crown preparation
- Implant placement
- Periodical surgery
- Use of ultrasonic scalers
- Laser based procedures\*

ASTM F2100-11 Standards	High Barrier ASTM Level 3	Benefits
Fluid Resistance (mm Hg)	160	Helps reduce potential exposure of the wearer to splash and splatter of blood, body fluids and other infectious materials.
Bacterial Filtration Efficiency (BFE) @ 3 µm	≥98%	Helps reduce wearer exposure to microorganisms.
Particulate Filtration Efficiency @ 0.1 µm	≥98%	Helps reduce wearer exposure to airborne biological particles.
Differential Pressure, Δ P ( mm H <sub>2</sub> O/cm <sup>2</sup> )	< 5.0	Exceptional comfort and breathability.
Flame Spread	Class 1	Mask materials are Flame Spread Class 1 rated meeting FDA recommendations for materials of construction of surgical masks intended for use in operating rooms.



Dedicated to innovative, high-quality solutions, services, and education that ensure maximum compliance and improve outcomes for healthcare professionals and patients.



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