



# Masks & PPE

| EN14683 Classification   | TYPE IIR<br>(Enhanced Fluid Resistance)  | TYPE IIR                   | TYPE II  | TYPE I                |
|--|--|----------------------------|--|-----------------------|
| Fluid resistance, kPa (mm Hg)                                      | 21.3 (160)   | 16.0 (120)                 | Not Required   | Not Required          |
| BFE, @ 3 microns   | ≥98%   | ≥98%                       | ≥98%   | ≥95%                  |
| Delta P, Pa/cm <sup>2</sup> (mm H <sub>2</sub> O/cm <sup>2</sup> ) | < 49.0 (<5)  | < 49.0 (<5)                | < 29.4 (<3)  | < 29.4 (<3)           |
| Microbial Cleanliness, cfu/g                                       | < 30   | < 30                       | < 30   | < 30                  |
| <b>Additional ASTM 2100 Classification</b>                         | <b>Level 3</b>   | <b>Level 2</b>             | <b>Level 1</b>   | <b>Not Applicable</b> |
| PFE, @ 0.1 micron  | ≥98%   | ≥98%                       | ≥95%   | -                     |
| Flame spread   | Class 1  | Class 1                    | Class 1  | -                     |
| Fluid resistance, kPa (mm Hg)                                      | 21.3 (160)   | 16.0 (120)                 | 10.7 (80)  | -                     |
| Delta P, Pa/cm <sup>2</sup> (mm H <sub>2</sub> O/cm <sup>2</sup> ) | < 49.0 (<5)  | < 39.2 (<4)                | < 29.4 (<3)  | -                     |
| Product families meeting both EN14683 & ASTM classifications       | Ultra™ Masks<br>Ultra™ Sensitive Masks<br>Ultra™ Sensitive Masks with BIOSAFE® | Procedural Surgical Tie-On | Isofluid™ Masks<br>Isofluid™ Plus Masks<br>Le Petit Mask | -                     |

## EN14683 & ASTM 2100 specification definitions

- **Fluid resistance** measures the mask's ability to prevent fluids from traveling through the material. The higher the fluid resistance (filtration), the better the protection. (Measured in kPa or mm Hg.)
- **BFE (bacterial filtration efficiency)** measures the mask's ability to prevent bacteria from traveling through the material. (Measured at 3 microns.)
- **Delta P (differential pressure)** determines breathing resistance—the higher the Delta P, the less the breathability, but the better the filtration. (Measured in Pa/cm<sup>2</sup> or mm H<sub>2</sub>O/cm<sup>2</sup>.)

## Additional EN14683 specification definition

- **Microbial Cleanliness** measures the total bioburden of the mask per gram of mask material tested. (Measured in colony forming units per gram; cfu/g.)

## Additional ASTM 2100 specification definitions

- **PFE (particulate filtration efficiency)** measures the mask's ability to prevent sub-micron particulates from traveling through the material. The size of the particles filtered is critical. (Measured at 0.1 micron.)
- **Flame spread** is a ranking derived by laboratory standard test methodology of a material's propensity to burn rapidly and spread flames.

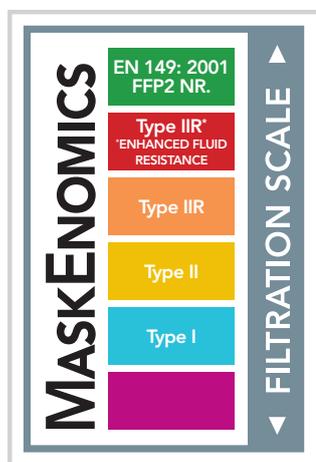
*\*Masks are considered a secondary control and are not meant to replace recommended primary engineering controls for laser plume exposure.*

*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.*

# Personal Protection Equipment (PPE) is at the heart of any infection prevention program.

Crosstex manufactures an extensive portfolio of PPE to meet all your practice needs, including our Made-in-USA face masks that meet all EN 14683 Type and ASTM Level classifications. Complies with PPE Regulation (EU) 2016/425 Annex 1X. Our award-winning Secure Fit™ Technology face masks were the first clinical face masks to feature adjustable aluminum nose and chin closures that minimize the potential of inhaling airborne contaminants by reducing gapping around the borders of the mask and provide a custom fit regardless of face shape or size.

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 its level of protection. Understanding EN14683 and ASTM performance can help ensure your mask will provide appropriate protection to minimize the spread of potentially infectious diseases.



The suggested mask classification recommendation per listed procedure are suggestions specifically for Crosstex masks.

## TYPE IIR (Enhanced Fluid Resistance)

- Ideal for procedures where moderate to high amounts of fluid, spray and/or aerosols are produced
- Complex oral surgery
- Crown preparation
- Implant placement
- Periodontal surgery
- Use of ultrasonic scalers (Magnetostrictive and Piezo)
- Laser based applications\*
- Root planing and scaling

## TYPE IIR

- Ideal for procedures where light to moderate amounts of fluid, spray and/or aerosols are produced
- Limited oral surgery
- Endodontics
- Prophylaxis
- Restoratives/composites
- Sealants

## TYPE II

- Ideal for procedures where light amounts of fluid, spray and/or aerosols are produced
- Patient exams
- Operatory cleaning/maintenance
- Impressions
- Lab trimming, finishing and polishing
- Orthodontics

