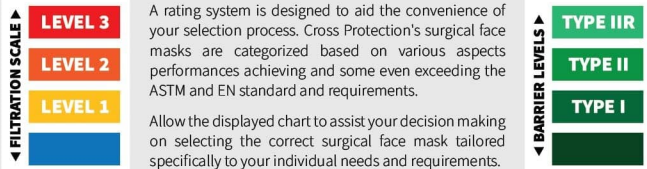


Understanding ASTM & EN Face Mask Performance Levels

The first step begins with selecting the right surgical face mask based on its catered procedure and environment. Although masks may look similar, they each possess a notable difference in terms of quality, duty and filtration efficiency.

As a critical component of your Personal Protective Equipment (PPE) protocol, understanding and abiding by the ASTM performance level and EN standard of each surgical face mask will not only make selection effortless and straightforward but also crucial to your protection.

Cross Protection® surgical face masks assembled under ASTM and EN specifications material are designated as one or more of the following performance levels based on the quality, filtration level efficiency and barrier performance properties.



TEST	ASTM F2100-11			EN14683:2014		
	Level 3	Level 2	Level 1	Type IIR	Type II	Type I
Synthetic Blood / Splash Resistance Penetration, mmHg / kPa	160	120	80	16.0 kPa	Not Required	Not Required
Bacterial Filtration Efficiency (BFE), @ 3 microns, %	≥98	≥98	≥95	≥98	≥98	≥95
Sub-micron Particulate Filtration Efficiency (PFE), @ 0.1 micron, %	≥98	≥98	≥95	Not Required	Not Required	Not Required
Delta P, mmH2O/cm²	<5.0	<5.0	<4.0	<5.0	<3.0	<3.0
Flammability	Class 1	Class 1	Class 1	Not Required	Not Required	Not Required
Microbial Cleanliness (CFU/g)	Not Required	Not Required	Not Required	≤30	≤30	≤30

Specification Definitions

- ♦ **Synthetic Blood / Splash Resistance Penetration** 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 mmHg.)
- ♦ **Bacterial Filtration Efficiency (BFE)** measures the mask's ability to prevent bacteria from traveling through the material. (Measured at 3 microns.)
- ♦ **Sub-micron Particulate Filtration Efficiency (PFE)** 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.)
- ♦ **Differential Pressure (Delta P)** determines breathing resistance - the higher the Delta P, the less the breathability, but the better the filtration. (Measured in mmH2O/cm²)
- ♦ **Flammability** is a ranking derived by laboratory standard test methodology of a material's propensity to burn rapidly and spread flames.
- ♦ **Microbial Cleanliness** it measure the total number of viable microorganisms on the face mask. The lower the value, the cleaner the mask. (Measured in CFU/g)



CROSS PROTECTION®



**DISPOSABLE
FACE MASK**



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Made In Malaysia

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- Maximum barrier protection for any situation with potential of exposure to heavy levels of aerosols, sprays and fluids.
- Complex oral surgery.
- Crown preparation.
- Implant placement.
- Periodontal surgery.
- Use of ultrasonic scalers (Magnetostriptive and Piezo).
- Root planing & Scaling.

ASTM LEVEL 3

ASTM LEVEL 2

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

ASTM LEVEL 1

Color Guide



Folding



ECO Fold



Superior Fold



Diamond Fold

EARLOOP

Res-Q 300 Ultra (4ply)

The most premium class of surgical face mask.

• BFE: $\geq 98\%$ • PFE: $\geq 98\%$
Meets EN 14683 - Type IIR

Code : 2-407EL
Packing : 40 Pieces x 20 Boxes

LEVEL 3



Res-Q 300 Plus - Sensitive (3ply)

Catered to individuals with sensitive, allergy and easily irritated skin.

• BFE: $\geq 98\%$ • PFE: $\geq 98\%$
Meets EN 14683 - Type IIR

Code : 2-426EL
Packing : 50 Pieces x 20 Boxes

LEVEL 2



Res-Q 300 Plus (3ply)

Proven reliable protection against common pathogens and particulates.

• BFE: $\geq 98\%$ • PFE: $\geq 98\%$
Meets EN 14683 - Type IIR

Code : 2-406EL
Packing : 50 Pieces x 20 Boxes

LEVEL 2



Res-Q 300 Plus - Kids (3ply)

Catered to children aged between 4 to 12 years.

• BFE: $\geq 98\%$ • PFE: $\geq 98\%$
Meets EN 14683 - Type IIR

Code : 2-688EL
Packing : 50 Pieces x 20 Boxes

LEVEL 2



Res-Q 300 (3ply)

General standard for both procedural and surgical use.

• BFE: $\geq 95\%$ • PFE: $\geq 95\%$
Meets EN 14683 - Type II

Code : 2-400EL
Packing : 50 Pieces x 20 Boxes

LEVEL 1



Res-Q 300 Basic (3ply)

Reliable protection against common pathogens and particulates.

• BFE: $\geq 95\%$

Code : 2-403EL
Packing : 50 Pieces x 20 Boxes

LEVEL 1



TIE ON

Res-Q 300 Ultra (4ply)

The most premium class of surgical face mask.

• BFE: $\geq 98\%$ • PFE: $\geq 98\%$
Meets EN 14683 - Type IIR

Code : 2-407TO
Packing : 40 Pieces x 20 Boxes

LEVEL 3



Res-Q 300 Plus (3ply)

Proven reliable protection against common pathogens and particulates.

• BFE: $\geq 98\%$ • PFE: $\geq 98\%$
Meets EN 14683 - Type IIR

Code : 2-406TO
Packing : 50 Pieces x 20 Boxes

LEVEL 2



Res-Q 300 (3ply)

General standard for both procedural and surgical use.

• BFE: $\geq 95\%$ • PFE: $\geq 95\%$
Meets EN 14683 - Type II

Code : 2-400TO
Packing : 50 Pieces x 20 Boxes

LEVEL 1



ACCESSORIES

Face Shield (Anti-Fog)

Constructed with lightweight, transparent anti-fog shields.

• Aid to increase peripheral protection
• Ideal for dental and medical industries

Code : 5-903
Packing : 10 Pieces x 1 Bag



Clip On (Face Mask)

Ideal for medical officers wearing hood, tudung covers or hair tied in a bun.

• Effortless and convenient wearability
• Reusable

Code : FC001
Packing : 10 Pieces x 1 Bag

