

# Choose the right mask



The right mask is an ASTM-rated mask.

## Protection over preference

Safety is everyone's concern but your mask choice is your own. With all of the key facts and safety factors in mind for facial protection, you can select an ASTM-rated mask that is right for you and protects the best.

## Follow the leaders

ASTM International sets the preferred international standard in healthcare for best practices inclusive of testing and requirements for performance of materials.

The FDA, who oversees the sale and marketing of all surgical masks, recommends that manufacturers demonstrate mask performance in 4 areas:

**Fluid Resistance**

**Differential Pressure**

**Filter Efficiency**

**Flammability**

## Understanding ASTM levels of protection is Key

Characteristics	Resistance to penetration by synthetic blood, minimum pressure in mm Hg for pass result	Differential pressure, mm H2O/cm2 (Breathability)	Bacterial filtration efficiency	Sub-micron particulates filtration efficient at 0.1 micron	Flame spread
<b>ASTM F2100-11 Levels</b>					
<b>Level 1: low barrier protection</b> General use for short procedures and exams that don't involve aerosols, spray or fluids	80 mm Hg	<4.0	≥95%	≥95%	Class1
<b>Level 2: moderate barrier protection</b> For low to moderate levels of aerosols, spray and/or fluids	120 mm Hg	<5.0	≥98%	≥98%	Class1
<b>Level 3: maximum barrier protection</b> For heavy levels of aerosols, spray and/or fluids	160 mm Hg	<5.0	≥98%	≥98%	Class1

## The "4 Fs" of selecting the right mask

\*Use ASTM standards to support choices around Filtrations and Fluid Resistance

**Filtration**

**Filter it**  
When you're around smoke or are interacting with a TB-infected patient, properly protect yourself with a high filtration mask (N95 Respirator).

**Feel**

**Bonus**  
Comfort & Breathability

**Fluid resistance**

**In matters of splatter**  
When at risk of encountering blood and/or bodily fluid splatter, wear the recommended ASTM Level 3 fluid-resistant mask and get the best protection for the OR.

**Features**

**Bells and whistles, Ties and loops**  
**Securement** – loops or ties (Mask with ear loops are not recommend for the OR)  
**Anti-fog film, foam and tapes** reduce distractions from fogging issues  
**Shields and protective eyewear** keep eyes clear of blood and splash.

**Fit**

**The fit is it**  
Even the right mask not worn correctly could put you at risk. Nose and mouth must be covered completely. Create a seal around the face to prevent gaps that increase the risk of inhalation exposure.

## Level Up!

The difference in protection between a Level 2 mask and a Level 3 mask is minimal.

When it is solely a matter of micromillimeters, level up your mask selection and get the best protection with an ASTM Level 3 mask.

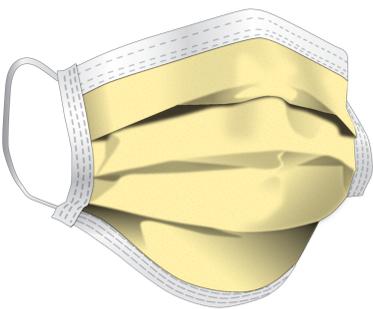
The risk of exposure to blood and bodily fluid splatter in the OR is significant and the protection offered in an ASTM Level 1 mask is minimal. (Twice the protection in a L3/L1)

When the risk is unknown or too great to ignore, level up your mask selection and get the best protection with an ASTM Level 3 mask.

## Procedure Masks

### ASTM Level 1

Patient & Staff isolation: Clean environments, sterile cores, processing departments, ER and ICU for bedside procedures



## Surgical Masks

### ASTM Level 3

OR Staff in sterile environments: closeness of fit protects against fluid transmission or –Intended for a high-risk of fluid exposure



## Common Procedures where Cardinal Health Clinician's recommend an ASTM Level 3 Mask\*

### Procedure

AAA	Debridement	Open Shoulder
Abdominal Major/Minor	EENT	Ophthalmic/Cataract
Abdominal/Perineal	Endovascular	Ortho Minor/Major
Abdominoplasty	General Neuro	Pacemaker
Arthroscopy Knee/Shoulder/Hip	General/Basic <sup>3</sup>	Plastic
Av Fistula	Hand/Extremity	Podiatry
Bariatric	Hysteroscopy	Thoracoscopy
Bone Marrow Biopsy/Transplant	Incision And Drainage	Thyroid
Breast Biopsy	Laparoscopic Assisted	Tonsil And Adenoid
Breast/ Breast Plastic	Vaginal Hysterectomy	Total Hip/Knee/Shoulder
C-Section	Laparoscopic Procedures	Tracheotomy
Cardiovascular <sup>†</sup>	Laryngoscopy	Transplant Procedures
Carotid	Major/Minor Gynecology	Trauma
Cervical/Thoracic/Lumbar Spine	Major/Minor Neuro	Urology/Cystoscopy
Clean Closure	Nasal/Sinus	Vaginal Hysterectomy
Colonoscopy	Oculoplastic	Vascular Access-Other <sup>†</sup>
Craniotomy	Open Heart Surgery	Vascular-Other

\* Based on fluid exposure guidelines from ASTM  
<sup>†</sup> Absent further specification (e.g., laparoscopic)  
<sup>3</sup> "General" or "Basic" implies abdominal

## N95 Respirator

### NIOSH N95

Protection against residual surgical smoke or on patients with known or suspected aerosol transmittable diseases

- Tuberculosis
- Varicella
- Rubeola2



You can't predict when you will be exposed, so why would you consider anything but an ASTM-rated mask?

To learn more about ASTM-rated masks contact your Cardinal Health sales rep