

3 - PLY PROTECTION FOR PROFESSIONALS

ASTM CERTIFIED PPE SURGICAL FACE MASKS LEVEL 1 - 3

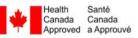


MADE IN CANADA | MADE FOR EVERYONE









Crown Mutual Medical Group is a Canadian manufacture of ASTM F2100 Surgical Face Masks for adults and children.

Contents Includes:

SURGICAL MASKS

- ASTM Level 1
- ASTM Level 2
- ASTM Level 3
- ASTM Paediatric

FACE MASKS OVERVEW

- Face mask 3-ply layers explained
- Breaking Down Raw Material
- ASTM International Standards

TESTING AND MANUFATURING

- FDA and Health Canada
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- Pricing Matrix
- Conclusion

CROWN MUTUAL MEDICAL GROUP

ASTM LEVEL -MINIMUM BARRIER PROTECTION

General use for short procedures and exams that don't involve aerosols, spray or fluids.*

3 - LAYERS OF PROTECTION

MUTUAL GROUP

1) Inner layer (non-woven); skin friendly, tasteless and non-irritating.

2) Middle layer (high grade melt-blown); absorption and filtration of virus droplets.

3) Outer layer (non-woven); water resistant.







ASTM LEVEL ONE PRODUCT FEATURES

- BFE 95%+ \ PFE 99%+
- Ferrous nose piece
- Comfortable, secure fit



- Water resistant, breathable, soft on the face
- Exceeds ASTM F2100 standards
- Low Delta P factor for easy breathability

*Please use as directed



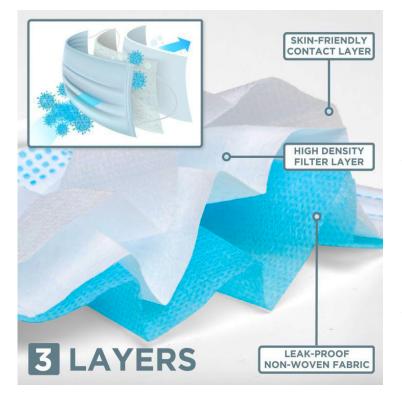




Not All Face Mask Are Created Equal

What is the difference with 3ply?

The 3-ply surgical mask is commonly used in the COVID-19 pandemic. The 3-ply surgical mask is made up of 3 different layers of nonwoven fabric with each layer having a specific function.



The outermost layer (typically blue) is waterproof and helps to repel fluids such as mucosalivary droplets. The middle piece is the filter, which prevents particles or pathogens above a certain size from penetrating in either direction.

The innermost layer is made of absorbent materials to trap mucosalivary droplets from the user. This layer also absorbs the moisture from exhaled air, thus improving comfort.

Together, these 3 layers effectively protect both the user and the surrounding people by limiting the penetration of particles and pathogens in both directions.





ASTM N95 DISPOSABLE RESPIRATOR

Provides at least 95% filtration efficiency against solids and liquid aerosols and is strongly resistant to oils.*

4 - LAYERS OF PROTECTION

MUTUAL GROUP

1) The two outward protective layers of fabric, covering the inside and outside of the mask, are created using spun bonding

2) Between the spun bond layers there's a pre-filtration layer, which can be as dense as 250 g/m2, and the filtration layer.

3) The last layer is a high efficiency meltblown electret (or polarized) nonwoven material, which determines the filtration efficiency.







ASTM N95 PRODUCT FEATURES

- Adjustable nose clip helps reduce fogging, helps ensure a better seal
- Non-valve, disposable respirator
- 2-strap design with 4-points staple provide a secure fit
- Soft nose foam reduces eyewear fogging
- Compatible with a variety of safety eyewear and hearing protection
- Cup-style respirator



*Please use as directed



Manufacturing

Several factors determine the quality of protection provided an ASTM surgical masks. These factors include, among other things, the source of the raw materials used to create medical-grade masks and how those materials are tested and certified for use in a professional environment.



CANAD/

Breaking down Raw Material.

Raw materials used to make surgical masks are made from a fabricated material called **Spunbond** and **Melt-blown**. The fabric is made of felt, an ideal material for manufacturing surgical masks. The remainder of the mask consists of **rubber ear loops** and a **plastic nose bridge**.







ASTM International Standards

ASTM International, formerly known as American Society for Testing and Materials, is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services.

Crown Mutual Medical is thrilled to be aligned with the Kinectrics testing facility in Toronto, Ont. Kinectrics offers testing of respiratory personal protective equipment (PPE) for industrial and medical applications.



Click Below To Hyperlink To The Test Results

Kinectrics ASTM Level 1 Testing Results

Kinectrics ASTM Level 2 Testing Results

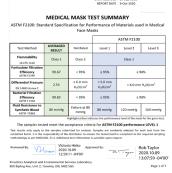
Kinectrics ASTM Level 3 Testing Results

Kinectrics ASTM Paediatric

Tested for the following oritoria	Typical Canada /US ASTM F2100-19					
Tested for the following criteria —	Level 1	Level 2	Level 3			
Bacterial Filtration Efficiency, % ASTM F2101-19	≥95	≥98	≥98			
Differential Pressure, mm H ₂ O/cm ² EN 14683:2019, Annex C or equivalent	<5.0	<6.0	<6.0			
Submicron particulate filtration efficiency at 0.1 micron, %	≥95	≥98	≥98			
0.1 Micron Silica Spheres tested at 5cm\sec or greater						
Splash Resistance/Synthetic Blood Resistance mmHg ASTM F1862	80	120	160			
Flame Spread 16 CFR Pat 1610	Class 1	Class 1	Class 1			





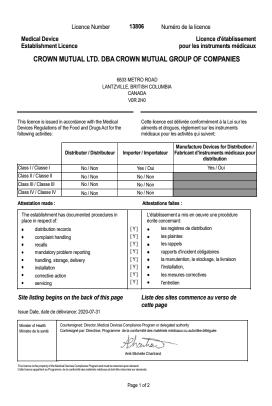


CROWN MUTUAL MEDICAL GROUP CERTIFIED PPE MADE IN CANADA MUTUAL GROUP

Testing for Certification & Compliance

In the world of manufacturing surgical face masks, it's all about standards and producing a compliant product that can offer the maximum amount of protection. American Society of Material and Testing (ASTM) is the global authority for determining surgical masks' criteria for a professional environment.





Crown Mutual Group is a North American based FDA and Health Canada registered manufacturer of medical grade ASTM surgical masks. Our company established due to a shortage of PPE.

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CROWN MUTUAL GROUP (CMG) manufacturers Surgical Masks certified ASTM Level 1, ASTM Level 2, ASTM Level 3, and Pediatric Mask ASTM Level 1.





CROWN MUTUAL GROUP MASK & FACE SHIELD PRICING TABLE

Adult Level 1	Sample Order	Each Carton contains 2500 Masks				
Adult ASTM Level 1	50 Pc Box	2500 -	10,000-	50,000-	250,000-	1M+
Medical Mask CMG A-01	100 - 2500	10000 Pc	50000 Pc	250000 PC	1M Pc	TIM
Cost Per Unit	\$0.40	\$0.28	\$0.23	\$0.22	\$0.21	\$0.20
Cost Per Box	\$20.00	\$14.00	\$11.50	\$11.00	\$10.50	\$10.00
Cost Per Carton (50 boxes)		\$700.00	\$575.00	\$550.00	\$525.00	\$500.00

Adult Level 2	Sample Order	Each Carton contains 2500 Masks				
Adult ASTM Level 2	50 Pc Box	2500 -	11,000-	51,000-	251,000-	1M+
Medical Mask CMG A-02	100 - 2500	10000 Pc	50000 Pc	250000 PC	1M Pc	TIM+
Cost Per Unit	\$0.45	\$0.30	\$0.25	\$0.23	\$0.22	\$0.21
Cost Per Box	\$22.50	\$15.00	\$12.50	\$11.50	\$11.00	\$10.50
Cost Per Carton (50 boxes)		\$750.00	\$625.00	\$575.00	\$550.00	\$525.00

Adult Level 3	Sample Order	Each Carton contains 2500 Masks				
Adult ASTM Level 3	50 Pc Box	2500 -	10,000-	50,000-	250,000-	1M+
Medical Mask CMG A-03	100 - 2500	10000 Pc	50000 Pc	250000 PC	1M Pc	TIAL
Cost Per Unit	\$0.50	\$0.35	\$0.32	\$0.30	\$0.29	\$0.28
Cost Per Box	\$25.00	\$17.50	\$16.00	\$15.00	\$14.50	\$14.00
Cost Per Carton (50 boxes)		\$875.00	\$800.00	\$750.00	\$725.00	\$700.00

Pediatric Level 1	Sample Order	Each Carton contains 2500 Masks				
Pediatric ASTM Level	50 Pc Box	2500 -	10,000-	50,000-	250,000-	1M+
Medical Mask CMG P-01	100 - 2500	10000 Pc	50000 Pc	250000 PC	1M Pc	TIM+
Cost Per Unit	\$0.45	\$0.30	\$0.25	\$0.23	\$0.22	\$0.21
Cost Per Box	\$22.50	\$15.00	\$12.50	\$11.50	\$11.00	\$10.50
Cost Per Carton (50 boxes)		\$750.00	\$625.00	\$575.00	\$550.00	\$525.00

Adult Face Shield	Sample Order	Each Carton contains 200 Masks				
WHO Standard	200 Pc Carton	200 -	5,000 -	50,000 -	500,000 -	184.
Dual Sided Anti-Fog	10 - 200	5,000 Pc	50,000 Pc	500,000 Pc	1M Pc	1M+
Cost Per Unit	\$2.25	\$2.15	\$2.00	\$1.85	\$1.70	\$1.55
Cost Per Box	\$450.00	\$430.00	\$400.00	\$370.00	\$340.00	\$310.00





