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Product Overview - 3M 7500-Series Reusable Elastomeric Respirator

3M™ Half Facepiece Reusable Respirator 7500 Series is a plastic and silicone respirator that helps provide protection against particulates and a wide variety of gasses and vapours when used with approved 3M cartridges and filters. When properly fitted and used with approved 3M™ cartridges and filters, this respirator (commonly referred to as a “mask”) helps provide respiratory protection at concentrations up to 10 times the Permissible Exposure Limit (PEL)¹.



Benefits of Use:

- This product can be repeatedly used, cleaned, disinfected & stored
- Elastomeric respirators can be used when conducting Aerosol generating medical procedures (AGMPs) in appropriate health settings when disposable N95 supply is scarce
- A tight fit can be achieved through adjustable straps on the device
- The mask is considered suitable and a comfortable option for long-term wear

Considerations for Use:

- Product is bulkier than a disposable N95s and can impede line of sight or communication with others.
- Implementation support and clinician education may be required to support clinicians with managing appropriate cleaning and disinfection procedures, or replacement of filters
- The exhalation valve on the mask is not filtered and does not offer source control if the wearer is infected
- Should not be used if wearer has a beard, other facial hair or other conditions that prevent a good seal between the face and the reusable respirator

Ontario Health’s guidance during COVID-19 is to use elastomeric respirators for aerosol generating medical procedures (AGMPs) in situations where disposable N95 supply is low. **To enable source control, users of elastomeric respirators should place a**

¹ https://www.3mcanada.ca/3M/en_CA/company-ca/all-3m-products/~3M-Half-Facepiece-Reusable-Respirator-7502-medium-1-bag/?N=5002385+3293806334&rt=rud

surgical/procedural mask over the exhalation valve to filter the user's exhalation, whenever in use. This step is included in the assembly process illustrated below².

Assembly by User

1. Initial check of the Mask

- Ensure the correct size
- Check for cracks, tears, dirt and distortion
- Ensure head and neck straps and clips are intact and elastic is not worn
- Inspect valves and filters for any damage



2. Filter Cartridges

- Filter cartridges come in two styles - Pink style, grey and purple style
- They perform equally and both are assembled the same way



3. Attaching the Filter Cartridges

- Look for the lines on the side of the strap, either side
- Look for the lines on the filter cartridge
- Align the two, rotate the cartridge and it will click into place; repeat for other side

² https://www.ontariohealth.ca/sites/ontariohealth/files/2020-05/Ontario%20Health%20Recommendations%20on%20Optimizing%20Personal%20Protective%20Equipment%20During%20the%20COVID-19%20pandemic_rev10May20%20PDF_v2.pdf



Your mask is now ready for donning

Donning and Doffing Process

1. Donning the Mask

- Ensure the correct size
- Assemble the mask by attaching the filter cartridges
- Check the mask for any indication of damage
- Check all of the valves to see that they have each been fully inserted and are not torn
- Pull the harness over your head



2. Adjust for Fit

- Take bottom straps in both hands and hook together behind your neck
- Remove any hair from under the straps
- Position respirator as low as possible on bridge of nose for best possible fit and to avoid blocking your vision
- Tighten top straps first, then bottom straps if required
- If the straps are too tight, push out of the back of the buckles to loosen



3. Check for Air Leaks

- Mask:
 - Place your hand over the front of the mask and blow out
 - You should feel pressure inside and feel no air leaking out of the mask
- Filter Cartridges:
 - Place both hands covering the side surfaces of the pink filter cartridges and suck in; or
 - Place your hands over the back of the grey/purple filter cartridges and suck in
 - In either case, you should feel the mask tighten and collapsed over the bridge of your nose

If you cannot achieve a proper fit, do NOT enter a room for an AGMP, and notify your supervisor.



4. Cover the Exhalation Valve

- Perform hand hygiene
- Place a surgical/procedural mask over the exhalation valve³
- Do not cover the inhalation filters (on the side) with the mask

³ Covering the exhalation valve with a surgical/procedure mask is a recommendation of Ontario Health to prevent the user from spreading droplets through this value should the user unknowingly have COVID-19 infection



5. Doffing the Mask

- Perform hand hygiene
- Remove and discard the surgical/procedural mask
- Perform hand hygiene again
- Reach behind and undo the back strap
- Reach up and tuck your thumbs under the top strap and pull forward
- Remove the mask away from your face and hold in the palm of your hand
- Conduct daily cleaning or interim wiping procedure as detailed below
- Store mask or prepare for return to Scrub Room
- Perform hand hygiene



Daily Cleaning

Cleaning and Disinfecting 3M Half and Full Facepieces⁴

- 1) Cleaning is recommended after each use. Nitrile or vinyl gloves should be worn during cleaning as well as other personal protective equipment (PPE) as indicated.
- 2) Remove any filters or cartridges and set them aside so they do not get wet. Please note that the filters and cartridges are reusable and should not be disposed of during cleaning. The facepiece may be further disassembled as necessary.
- 3) Inspect the facepiece per the *User Instructions* to identify any damage or excessive wear. Replace components or the entire facepiece as necessary.
- 4) Manually clean the facepiece by immersing it in warm water not to exceed 120°F (49°C), and scrub with soft brush until clean. Add neutral detergent. Do not use cleaners containing lanolin or other oils. **NOTE:** Solvents and strong detergents may damage 3M facepieces and should not be used for cleaning.
- 5) Rinse thoroughly with fresh warm water.
- 6) Disinfect by soaking, wiping or spraying the facepiece according to the user instructions for the selected disinfectant, including application and contact time.
- 7) Rinse, wipe or spray the facepiece thoroughly with fresh warm water.
- 8) Air dry in a non-contaminated area.
- 9) Inspect and reassemble the respirator as described in the *User Instructions*.
- 10) The respirator should be stored in a non-contaminated area when not in use.

Interim Wipe Cleaning and Disinfection of 3M Half Facepieces⁵

Wipe cleaning and disinfection of the facepiece can be considered as an interim method. This method is not to be the only method of cleaning.

- 1) If gross contamination or facial oil is present, a cleaning step should be performed before disinfection. Wipe all components with cleaning solution, including the interior and exterior of the facepiece and head harness.
- 2) Wipe the interior and exterior of the facepiece and head harness with the selected disinfectant, following the disinfectant user instructions including application and contact time.
- 3) Wipe all components with clean water to remove residual chemical.
- 4) Air dry or hand dry prior to next use in a non-contaminated area.
- 5) Inspect prior to use as described in the *User Instructions*.
- 6) The respirator should be stored in a non-contaminated area when not in use.

For more information please visit the below links:

⁴ <https://multimedia.3m.com/mws/media/17939590/cleaning-and-disinfecting-3m-reusable-respirators-following-potential-exposure-to-coronaviruses.pdf>

⁵ <https://multimedia.3m.com/mws/media/17939590/cleaning-and-disinfecting-3m-reusable-respirators-following-potential-exposure-to-coronaviruses.pdf>

1) Ontario Health Guidance on use of elastomerics:

https://www.ontariohealth.ca/sites/ontariohealth/files/2020-05/Ontario%20Health%20Recommendations%20on%20Optimizing%20Personal%20Protective%20Equipment%20During%20the%20COVID-19%20pandemic_rev10May20%20PDF_v2.pdf

2) 3M Tutorial on Assembly of Mask:

<https://www.youtube.com/watch?v=mlWyMPFwEI8>

3) 3M Detailed Instruction Sheet:

<https://multimedia.3m.com/mws/media/147813O/3m-half-facepiece-respirator-7500-series-user-instructions.pdf>