

# Reusable Respirator : Alternative Solution for Covid-19 Front Liner

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# Reusable Respirator (RR) Solution for Front liner

- a) Half facepiece with 2091 filter + 1621/1623AF/Fahrenheit goggles + ML-Series/ AO Tuff master series face shield or
- b) Full face piece with 2091 filter



\*Plan ahead. Ask # of people wearing prescriptive eyewear.

## Important:

- RR application with 2000 series filter, the filter shall discard after each use/each doffing.
- Disinfect RR face piece after each use/each doffing.
- Not for Sterile field.

Image				
Name	Disc Filters	Pre-Filter Pads	7093/7093C/603X	6092X/609X Cartridges
Wipe outside surface as indicated in disinfecting product user instructions with damp cloth and disinfecting solution				

NOTE: The guidance in this Technical Bulletin may exceed the directions found in certain 3M facepiece User Instructions and is therefore intended only for cleaning and disinfecting the specified respirators following potential exposure to coronaviruses. Note that respirator components may experience detrimental effects over time with prolonged or extended use of disinfecting products. As discussed in the product User Instructions, users must inspect their respirator prior to each use. If you discover any signs of damage, remove the respirator from service and either replace components or replace the entire facepiece as appropriate, following the guidance in the product User Instructions.

# RR Solution for Front liner

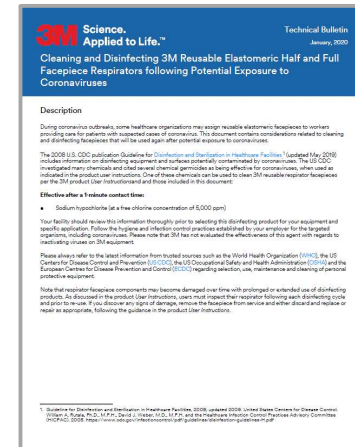
## Reusable Respirator Cleaning and Disinfection Guide :

- Sodium hypochlorite solution (at a free chlorine concentration of 5,000ppm, typically 1:10 ratio of bleach to water) with 1-minute contact time. or
- 70% Isopropanol solution with 5-minute contact time.  
*\*Note: Soaking in IPA solution resulted in degradation of inhalation valves after ~ 20 cycles, for 6200 and 7500 facepieces. Pay close attention to this area during inspection.*

### Important remind user :

- Practice highest personal hygiene & proper PPE disinfection procedures as per regulated by CDC/WHO or Hospital policy whichever is stricter with highest individual integrity to minimize transmission risk of Covid-19.

<https://multimedia.3m.com/mws/media/1793959O/cleaning-and-disinfecting-3m-reusable-respirators-following-potential-exposure-to-coronaviruses.pdf>



**Wear nitrile glove**

# User Training Video Library : donning, doffing, cleaning, seal check

3M™ Half Facepiece Reusable Respirator 6000 Series:

<https://www.youtube.com/watch?v=yBg2B2BP9nA&list=PLA6zGs-qd6TDW3zJOR0JuhM7JVH2R3q11&index=60&t=0s>

Or by Chapter:

<https://multimedia.3m.com/mws/media/1814933O/training-videos3m-half-facepiece-reusable-respirator-6000-series.pdf>

3M™ Half Facepiece Reusable Respirator 6500 Series:

<https://www.youtube.com/watch?v=LLfwOhIN59k&list=PLA6zGs-qd6TDW3zJOR0JuhM7JVH2R3q11&index=41&t=0s>

or by Chapter:

<https://multimedia.3m.com/mws/media/1814935O/training-videos3m-half-facepiece-reusable-respirator-6500-series.pdf>

3M™ Half Facepiece Reusable Respirator 7500 Series:

<https://www.youtube.com/watch?v=mlWyMPFwEI8&list=PLA6zGs-qd6TDW3zJOR0JuhM7JVH2R3q11&index=48&t=0s>

or by Chapter:

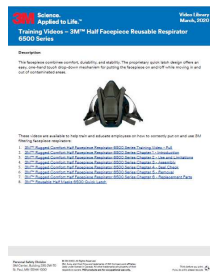
<https://multimedia.3m.com/mws/media/1814936O/training-videos3m-half-facepiece-reusable-respirator-7500-series.pdf>

3M 3M™ Full Facepiece Reusable Respirator 6000 Series:

<https://www.youtube.com/watch?v=ycFrVzZfdu8>

Or by Chapter:

<https://multimedia.3m.com/mws/media/1822212O/3m-6000-series-full-facepiece-respirator-video-library.pdf>



# User Training on donning, doffing, cleaning, seal check video library


\*Share this video library (PDF) with user.

**3M Science. Applied to Life.™** Video Library March, 2020

**Training Videos – 3M™ Half Facepiece Reusable Respirator 6000 Series**

**Description**

This half facepiece reusable respirator offers reliable and convenient respiratory protection and is suitable for many situations, helping provide protection against particulates and a wide variety of gases and vapors according to NIOSH approvals.



These videos are available to help train and educate employees on how to correctly put on and use 3M filtering facepiece respirators:

1. 3M™ Half Facepiece Respirator 6000 Series Training Video - Full
2. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 1: Introduction
3. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 2: Use and Limitations
4. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 3: Inspection
5. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 4: Assembly
6. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 5: Donning
7. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 6: Drop Down Donning
8. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 7: User Seal Check
9. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 8: Removal
10. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 9: Drop Down Removal
11. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 10: Replacement and Cleaning
12. 3M™ Half Facepiece Respirator 6000 Series Training Video - Chapter 11: Replacement Parts

Personal Safety Division  
3M Center, Building 235-2V-70  
St. Paul, MN 55144-1000

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**3M Science. Applied to Life.™** Video Library March, 2020

**Training Videos – 3M™ Half Facepiece Reusable Respirator 6500 Series**

**Description**

This facepiece combines comfort, durability, and stability. The proprietary quick latch design offers an easy, one-hand touch drop-down mechanism for putting the facepiece on and/off while moving in and out of contaminated areas.



These videos are available to help train and educate employees on how to correctly put on and use 3M filtering facepiece respirators:

1. 3M™ Rugged Comfort Half Facepiece Respirator 6500 Series Training Video - Full
2. 3M™ Rugged Comfort Half Facepiece Respirator 6500 Series Chapter 1: Introduction
3. 3M™ Rugged Comfort Half Facepiece Respirator 6500 Series Chapter 2: Use and Limitations
4. 3M™ Rugged Comfort Half Facepiece Respirator 6500 Series Chapter 3: Assembly
5. 3M™ Rugged Comfort Half Facepiece Respirator 6500 Series Chapter 4: Seal Check
6. 3M™ Rugged Comfort Half Facepiece Respirator 6500 Series Chapter 5: Removal
7. 3M™ Rugged Comfort Half Facepiece Respirator 6500 Series Chapter 6: Replacement Parts
8. 3M™ Reusable Half Masks 6500 Quick Latch

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**3M Science. Applied to Life.™** Video Library March, 2020

**Training Videos – 3M™ Half Facepiece Reusable Respirator 7500 Series**

**Description**

This facepiece is used for certain paint spraying, solvents, and pesticide applications. The 3M™ Cool Flow™ Valve technology offers heat reduction and easier breathing. For workplace/occupational applications only.



These videos are available to help train and educate employees on how to correctly put on and use 3M filtering facepiece respirators:

1. 3M™ Half Facepiece Respirator 7500 Series Training Video - Full
2. 3M™ Half Facepiece Respirator 7500 Series Chapter 1: Introduction
3. 3M™ Half Facepiece Respirator 7500 Series Chapter 2: Use and Limitations
4. 3M™ Half Facepiece Respirator 7500 Series Chapter 3: Inspection
5. 3M™ Half Facepiece Respirator 7500 Series Chapter 4: Assembly
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8. 3M™ Half Facepiece Respirator 7500 Series Chapter 7: User Seal Check
9. 3M™ Half Facepiece Respirator 7500 Series Chapter 8: Removal
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**3M Science. Applied to Life.™** Video Library March, 2020

**Demonstration Videos – 3M™ Full Facepiece Reusable Respirator 6000 Series**


**Description**

This full facepiece reusable respirator offers lightweight comfort and ease of use. Combine with appropriate 3M™ particulate filters or cartridges to help provide respiratory protection against particulates and/or a variety of gases and vapors.

**These videos are available to help demonstrate and educate employees on how to correctly put on and use 3M filtering facepiece respirators:**

- [Chapter 1: Introduction](#)
- [Chapter 2: Use and Limitations](#)
- [Chapter 3: Inspection](#)
- [Chapter 4: Assembly](#)
- [Chapter 5: Donning](#)
- [Chapter 6: User Seal Check](#)
- [Chapter 7: Doffing](#)
- [Chapter 8: Cleaning](#)
- [Chapter 9: Replacements Parts](#)
- [Chapter 10: Spectacle Kit](#)

**Full Video (includes all chapters)**



**If you would like to download any of the videos in this document, please follow these instructions:**

1. Right click on the hyperlink text and select "Copy Link Location."
2. Open your Google Chrome browser. Click this [link](#) if you need to download Google Chrome. NOTE: You will not be able to download the videos using Microsoft Edge.
3. Paste the link into the search bar in Chrome.
4. Click on the vertical ellipsis (three dots) in the bottom right corner and select download.

**3M Personal Safety Division Technical Service 1 (800) 243-4630**

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# Tips to conduct Virtual Training :

Conduct training using 3M 4Step module + donning, doffing, cleaning video :

Start with below steps & focus on main point:

- Inspection of respirator & its component – ensure all parts in good condition.
- Demo on donning & doffing + seal check.
- When to change filter – 2000 series filter shall discard after each shift.
- Cleaning & disinfection RR facepiece, filter retainer after each use/ each doffing with:
  - Sodium Hypochlorite (NaOCl), Effective after a 1-minute contact time. Or
  - 70% Isopropanol solution with 5-minute contact time.
- Rinse with water. Dry & keep properly.
- Record photo/Screen shot picture of attendance.

Attendance name list in excel.





Langkah 4 – Cara Penggunaan dan Penjagaan Yang Betul

Langkah-langkah:

1. Mengenali respirator anda – keadaan fizikal.
2. Pemakaian yang betul.
3. Lakukan "User Seal Check" (Setiap kali pemakaian).
4. Fit Test (Tahunan).
5. Bila perlu tukar "filter" (Jangka hayat).
  - Kebersihan
  - Kerosakan
  - Sukar bernafas
6. Bila perlu tukar "Cartridge" (Jangka hayat).
  - Kualitatif – Bau, rasa
  - Kuantitatif – Menganggar jangka hayat "cartridge" dengan menggunakan "3M Cartridge Service Life Software".

<http://extra8.3m.com/SLSWeb/home.html>





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# Cleaning & Disinfecting 3M Half & Full Facepieces

- 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. 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) 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 if necessary. 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 the facepiece according to the user instructions for the selected disinfectant, including usability, application and contact time.
- 7) Rinse 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*.



**Wear nitrile glove**



# Fit Testing (\*When User switch from DR to RR)

## Will a filtering facepiece respirator still work if I am not fit tested?

Possibly. When worn correctly, government-certified respirators, such as N95 respirators, can help reduce the number of airborne particles you breathe. If you do not receive formal training or a fit test (as a medical or industrial worker typically would), you may not receive the full benefit of the respirator. Fit testing is required in some countries and considered a best practice. However, studies have shown that people can still receive a reduction in exposure if they do the following:<sup>1</sup>

- Follow the instructions on how to put on the respirator (i.e., donning)
- Perform the user seal check (fit check) described in the user instructions
- Make sure that they are clean-shaven where the respirator touches the face
- Make sure no clothing or jewelry gets between the respirator and the face

It is important to remember that respirators cannot eliminate the breathing in of all particles in the air and cannot eliminate the possibility of becoming sick. For your respirator to help reduce the number of particles you breathe, you must read and follow the user instructions that come with each respirator.

# Can a respirator with a valve be effective against bioaerosols?

The purpose of a respirator's exhalation valve is to reduce the breathing resistance during exhalation; it does not impact a respirator's ability to provide respiratory protection. The valve is designed to open during exhalation to allow exhaled air to exit the respirator and then close tightly during inhalation, so inhaled air is not permitted to enter the respirator through the valve. Most countries do not permit valves on surgical respirators because wearer-generated droplets, exhaled through the valve, might contaminate a sterile field. While a valve does not change a respirator's ability to help reduce a wearer's exposure to bioaerosols, it is not recommended that a person who is exhibiting symptoms of illness wear a valved respirator, because there is a possibility that exhaled particles may leave the respirator via the valve and enter the surrounding environment, potentially contaminating the sterile field. In summary:

- Healthcare workers may wear valved or unvalved respirators to help reduce their exposure to potentially infectious aerosols.
- Healthcare workers should wear a surgical respirator (which usually do not have valves) if they require respiratory protection while performing patient care tasks that might generate a high-pressure stream of liquid such as arterial spray or are working in a sterile field.

## Important:

3M PSD central information point on Covid-19

[https://www.3m.com/3M/en\\_US/worker-health-safety-us/all-stories/full-story-detail/?storyid=8855304f-01cb-4af2-8937-83096cdb4113](https://www.3m.com/3M/en_US/worker-health-safety-us/all-stories/full-story-detail/?storyid=8855304f-01cb-4af2-8937-83096cdb4113)

3M Technical Updates on Covid-19:

[3M Technical Bulletin – Novel Corona Virus Outbreak in China](#)

Centers for Diseases Control & Prevention on Covid-19:

[https://www.cdc.gov/coronavirus/2019-ncov/infection-control/control-recommendations.html?CDC\\_AA\\_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fhcp%2Finfection-control.html](https://www.cdc.gov/coronavirus/2019-ncov/infection-control/control-recommendations.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fhcp%2Finfection-control.html)