



# **3M** Particulate Filter 7093, P100

*User Instructions for 3M™ Particulate filter 7093,  
P100*

Important: Keep these *User Instructions* for reference

For use only with 3M™ 5000 Series, 6000 Series and 7000 Series half and full facepiece respirators according to the NIOSH approval label.



## ⚠️ WARNING

This filter helps protect against certain particles. **Misuse may result in sickness or death.** For proper use, see supervisor, or *User Instructions*, or call 3M in U.S.A., 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.

### IMPORTANT

Before use, the wearer must read and understand these *User Instructions*, and the *User Instructions* for the 5000 Series, 6000 Series or 7000 Series half or full facepiece respirator to be used with these filters. Keep these *User Instructions* for reference.

### Use For

- Solids such as those from processing minerals, coal, iron ore, cotton, flour, and certain other substances.
- Liquid or oil based particles from sprays that do not also emit **harmful** vapors.
- Metal fumes produced from welding, brazing, cutting and other operations involving heating of metals.
- Radioactive particulate materials such as uranium and plutonium.
- Asbestos.

### Do Not Use For

- Gases and vapors when concentrations exceed the OSHA PEL, or applicable government regulations, whichever is lower, including those present in paint spraying operations, unless combined with approved chemical cartridges.
- Sandblasting.

### Biological Particles:

These particulate filters can help reduce inhalation exposures to certain airborne biological particles (e.g. mold, *Bacillus anthracis*, avian influenza, *Mycobacterium tuberculosis*, etc.) but cannot eliminate the risk of contracting infection, illness or disease. OSHA and other government agencies have not established safe exposure limits for these contaminants.

### Use Instructions

1. Failure to follow all instructions and limitations on the use of these filters and/or failure to wear the respirator during all times of exposure can reduce respirator effectiveness and **may result in sickness or death.**
2. Before occupational use of these filters, a written respiratory protection program must be implemented meeting all the requirements of OSHA 29 CFR 1910.134 such as medical evaluation, training and fit testing and applicable OSHA substance specific standards. In Canada, CSA standard Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate.
3. The airborne contaminants which can be dangerous to your health include those so small that you cannot see them.
4. Leave the contaminated area immediately and contact your supervisor if you smell or taste contaminants or if dizziness, irritation, or other distress occurs.

5. Store the filters and respirator away from contaminated areas when not in use.
6. Dispose of used product in accordance with applicable regulations.

### **Use Limitations**

1. These filters do not supply oxygen. Do not use in atmospheres containing less than 19.5% oxygen.
2. Do not use when concentrations of contaminants
  - are immediately dangerous to life or health,
  - are unknown,
  - are greater than 10 times the permissible exposure limit (PEL) with half facepiece respirators and full facepiece respirators when qualitatively fit tested,
  - are greater than 50 times the PEL with full facepiece respirators when quantitatively fit tested, or
  - exceed specific OSHA standards or applicable government regulations, whichever is lower.
3. Do not alter, clean (e.g. vacuum, wash, use compressed air), abuse or misuse these filters and/or respirator.
4. Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the sealing surface of the respirator.

### **Time Use Limitations**

1. If filters become damaged, soiled, or breathing becomes difficult, leave the contaminated area immediately and replace the filters.
2. If used in environments containing only oil aerosols, replace filters after 40 hours of use or 30 days, whichever is first.

### **Assembly Instructions**

1. Align opening of filter with filter attachment on facepiece. Note: The alignment mark on the filter should face the front of the facepiece.
2. Turn filter clockwise until it is firmly seated and cannot be further turned.
3. Repeat for second filter.

### **NEGATIVE PRESSURE USER SEAL CHECK**

#### **3M™ 7093 Filters**

1. Using hands, press or squeeze filter covers toward facepiece to restrict airflow. Be careful not to disturb the position of the respirator. *Inhale gently*. If you feel the facepiece collapse slightly and pull closer to your face with no leaks between your face and the sealing surface of the respirator, a proper seal has been obtained. (Fig. 1)
2. If facesal air leakage is detected, reposition respirator on face and/or readjust tension of straps to eliminate the leakage, and repeat step 1.

**If you CANNOT achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**



**Fig 1**

**NIOSH Approved: P100 Particulate Filter.**

**At least 99.97% filtration efficiency against solid and liquid aerosols including oils.**

This filter contains no components made from natural rubber latex.

**FOR MORE INFORMATION**

**In United States, contact:**

Internet: [www.3M.com/OccSafety](http://www.3M.com/OccSafety)

Technical Assistance: 1-800-243-4630

**For other 3M products:**

1-800-3M-HELPS or 1-651-737-6501

**3M Occupational Health and  
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