

# **3M Particulate Filters 2000 and 2200 Series, P100**

*User Instructions for 3M™ Particulate Filter 2091/07000 (AAD), P100;*

*3M™ Advanced Particulate Filter 2291, P100;*

*3M™ Particulate Filter 2096, P100, with Nuisance Level Acid Gas Relief\*;*

*3M™ Advanced Particulate Filter 2296, P100, with Nuisance Level Acid Gas Relief\*;*

*3M™ Particulate Filter 2097/07184 (AAD), P100, with Nuisance Level Organic Vapor Relief\*\*; and*

*3M™ Advanced Particulate Filter 2297, P100, with Nuisance Level Organic Vapor Relief\*\*.*

**Important:** Keep these *User Instructions* for reference

For use only with 3M™ 5000 Series, 6000 Series, 7000 Series and FF-400 Series half and full facepiece respirators according to the NIOSH approval label.

07000 and 07184 are catalog numbers only. NIOSH approved as 3M™ 2091 P100 Particulate Filter and 3M™ 2097 P100 Particulate Filter.

\***3M recommended** for relief against nuisance levels of acid gases. Nuisance level acid gas refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

\*\* **3M recommended** for relief against nuisance levels of organic vapors. Nuisance level organic vapor refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.



## ⚠️ WARNING

This filter helps protect against certain airborne contaminants. **Misuse may result in sickness or death.** For proper use, see supervisor, or *User Instructions*, or call 3M in U.S.A., 1-800-247-3941. 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, 7000 Series and FF-400 Series half or full facepiece respirator to be used with these filters. Keep these *User Instructions* for reference.

## Use For

### Particulate Filters 2091 and 2291, P100

- 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.

### Particulate Filters 2096 and 2296, P100 with nuisance level acid gas relief\*

- 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.
- 3M recommended for relief from nuisance levels of acid gases such as sulfur dioxide, hydrogen fluoride and/or chlorine.

\*Nuisance level acid gas refers to concentrations not exceeding the OSHA PEL or applicable occupational exposure limits, whichever is lower.

### Particulate Filter 2097 and 2297, P100 with nuisance level organic vapor relief\*\*

- 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.
- 3M recommended for ozone protection up to 10 times the OSHA PEL (Not NIOSH certified for use against ozone).
- 3M recommended for relief from nuisance levels of organic vapors.

\*\*Nuisance level organic vapor refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

## **Do Not Use For**

### **Particulate Filter 2091 and 2291, P100**

- 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.

### **Particulate Filter 2096 and 2096, P100 with nuisance level acid gas relief\***

- 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.

\*Nuisance level acid gas refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

### **Particulate Filter 2097 and 2297, P100 with nuisance level organic vapor relief\*\***

- 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.
- Do not use for ozone when concentrations exceed 10 times the OSHA PEL.
- Sandblasting.

\*\*Nuisance level organic vapor refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

## **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,
  - exceed the 3M recommendations in the “Use For” and “Do Not Use For” sections of these *User Instructions*,
  - 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, dispose of filters after 40 hours of use or 30 days, whichever is first.
3. If used for ozone protection (3M<sup>TM</sup> 2097 and 2297 P100 Particulate and nuisance level organic vapor), replace filters in accordance with an established change schedule, or earlier if smell, taste or irritation from contaminants is detected.

**NIOSH Approved: P100 Particulate Filter.**

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

**FOR MORE INFORMATION**

**In United States, contact:**

Website: [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  
Environmental Safety Division**

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