

Particulate Filter, P100

User Instructions

IMPORTANT: Keep these *User Instructions* for reference. For use only with 3M™ Facepieces 5000, 6000, 7000 and FF-400 Series according to NIOSH approval labels.

This respirator filter has dual approval as a United States (US) National Institute for Occupational Safety and Health (NIOSH) P100 particulate filter and as a Brazil Ministry of Labor approved P3 SL particulate filter. Standard specific information is provided where applicable. All other information is common to both standards.

Refer to facepiece *User Instructions for Installation*.



WARNING
These filters help protect against certain airborne contaminants. **Misuse may result in sickness or death.**

Use For

Solid and liquid aerosols including oils that do not also emit harmful vapors. Metal fumes produced from welding, brazing, cutting and other operations involving heating of metals. Radioactive materials such as uranium and plutonium. Asbestos.

Do Not Use For

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. Do not use for sandblasting.

Biological Particles

This filter, when used with 3M™ Facepieces 5000, 6000, 7000 and FF-400 Series can help reduce inhalation exposures to certain airborne biological particles (e.g. mold, *Bacillus anthracis*, *Avian Influenza Viruses*, *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 this filter 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 local applicable requirements. In the U.S., follow OSHA 29 CFR 1910.134 which includes medical evaluation, training and fit testing. In the U.S., users must also comply with applicable OSHA substance specific standards. In Canada, CSA standard Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. In Brazil, follow the requirements of the Respiratory Protection Program of the Ministry of Labor.
3. The particles which can be dangerous to your health include those so small that you cannot see them.
4. Leave the contaminated area immediately and contact supervisor 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 filters 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 (IDLH),
 - 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 50 times the PEL with full facepiece respirators when quantitatively fit tested, or
 - exceed specific local applicable government regulations (such as OSHA standards in the U.S.) or other 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, facial hair or other conditions that prevent a good seal between the face and the sealing surface of the respirator.

In Brazil, according to the Respiratory Protection Program of the Ministry of Labor, do not use when concentrations of contaminants are greater than 10 times the permissible exposure limit using a half facepiece or 100 times the permissible exposure limit using a full facepiece.

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 on Facepiece

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 one quarter turn until it is firmly seated and cannot be further turned.
3. Repeat for second filter.

NOTE: When using the 7093 filters with the 3M™ Respirator 5000 Series or the 6000 Series Cartridges, the 502 adaptor is required.

NEGATIVE PRESSURE USER SEAL

CHECK 3M™ Filter 7093

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 facepiece, a proper seal has been obtained (Fig. 1).
2. If faceseal air leakage is detected, reposition respirator on face and/or readjust tension of straps to eliminate the leakage.

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

NIOSH Approved: P100

At least 99.97% filtration efficiency against solid and liquid aerosols including oils. This filter contains no components made from natural rubber latex.

For Compliance in Brazil NOTE:

PARTICULATE FILTER 7093, P3 SL In

Brazil, Ministry of Labor approved as filter class P3, SL.

NOTE:

1. In Brazil do not use when concentrations of contaminants are greater than 10 times the permissible exposure limit using a half facepiece or 100 times the permissible exposure limit using a full facepiece.
2. Do not use in deficient or enriched oxygen atmospheres.
3. Storage, Transportation and Care: store in a clean and dry place and away from contaminants and extreme temperature and humidity.
4. The components of this filter are made of materials which are not expected to cause adverse health effects.
5. It is necessary to have special care to use this product in explosives atmospheres.

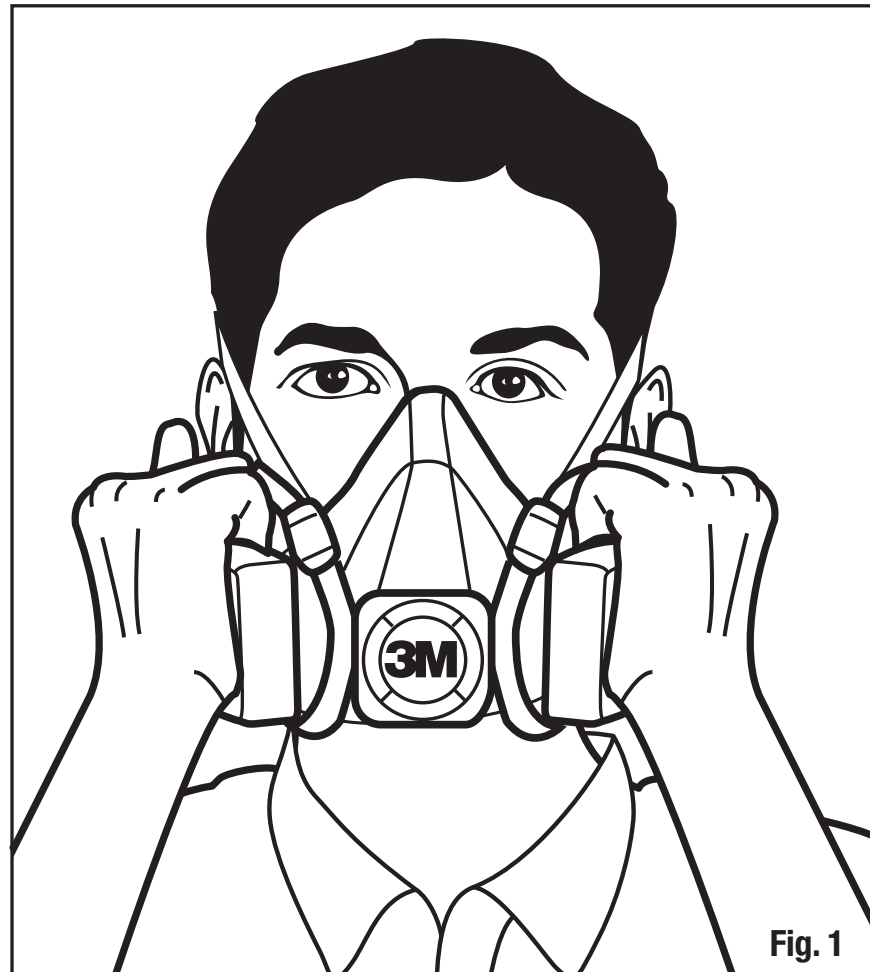


Fig. 1

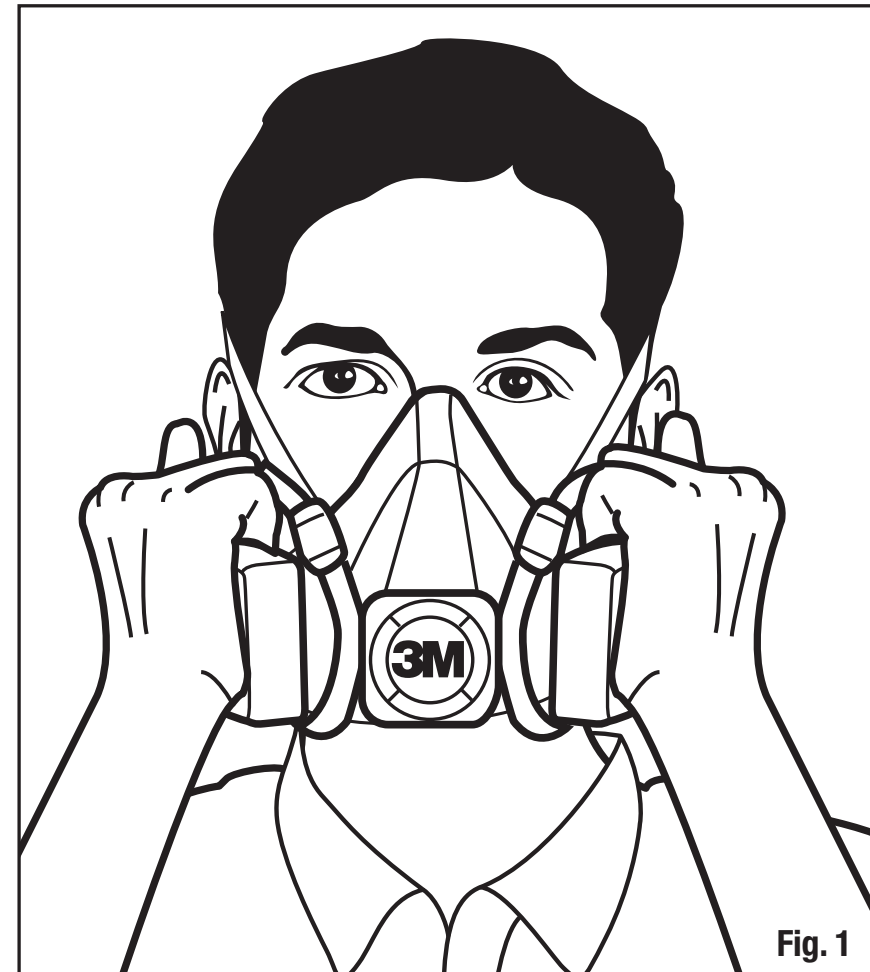


Fig. 1

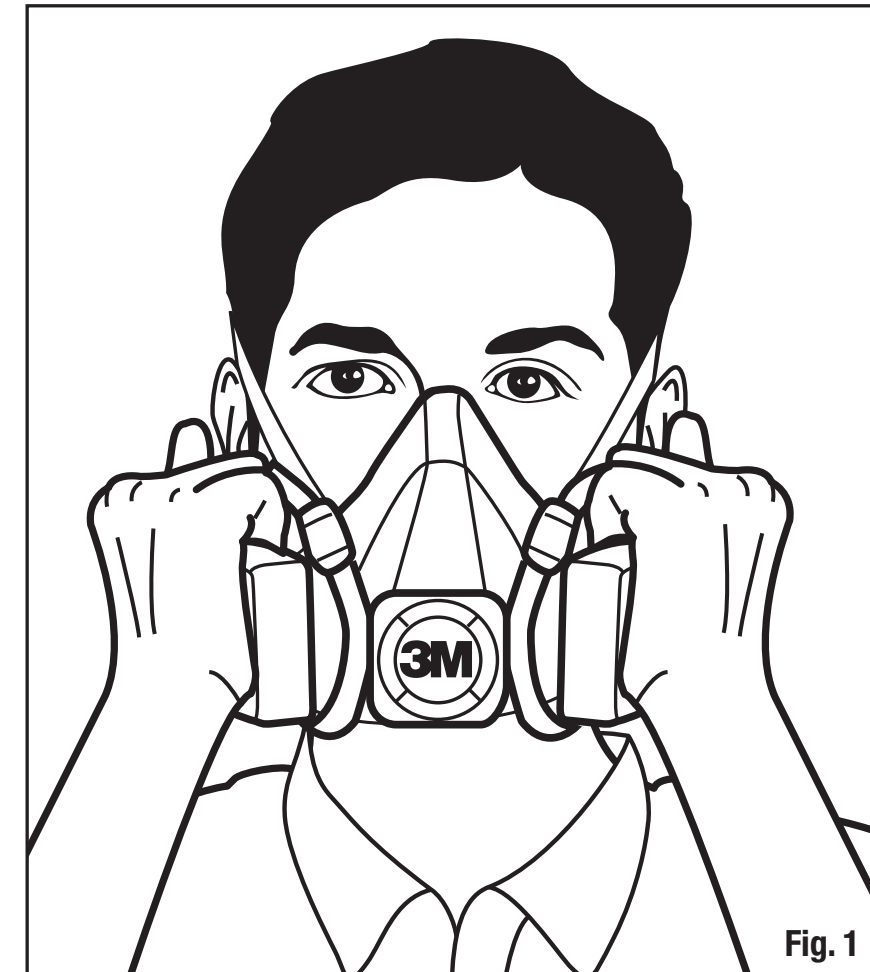


Fig. 1

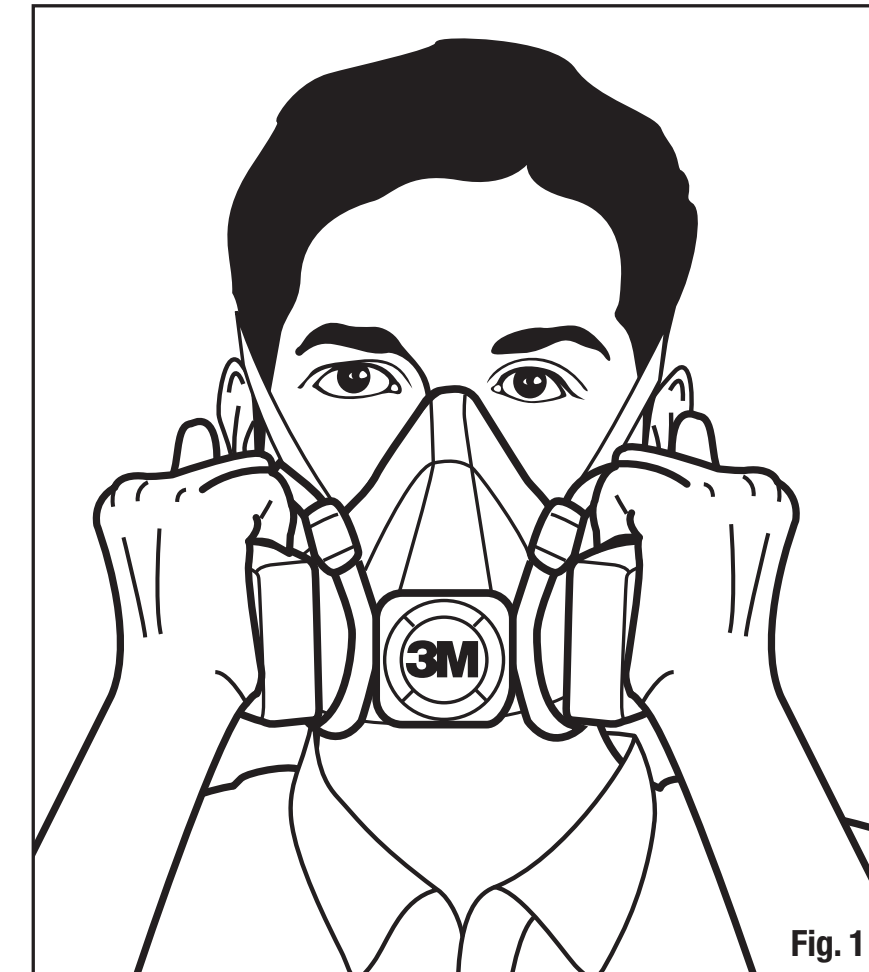


Fig. 1

THIS FILTER IS APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:



Table with columns for TC, PROTECTION, FILTER, ALTERNATE RESPIRATOR, RESPIRATOR COMPONENTS (NOSECUP, ALTERNATE CENTER ADAPTER, PLUG, VALVE ASSEMBLY, VALVE COVER, ALTERNATE FILTER ADAPTER, ALTERNATE LENS, ALTERNATE CARTRIDGE, ALTERNATE BREATHING TUBE, ALTERNATE AIRLINE ADAPTER, ALTERNATE REGULATOR, ALTERNATE BELTS, SHOULDER STRAP, ALTERNATE HOSE, ACCESSORIES), and CAUTIONS AND LIMITATIONS. The table lists various model numbers and their compatibility with different components and filter types.

- 1. PROTECTION
P100 - Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols.
OV - Organic vapor
SD - Sulfur dioxide
HC - Hydrogen chloride
CL - Chlorine
CD - Chlorine dioxide
HF - Hydrogen fluoride
HS - Hydrogen sulfide
AM - Ammonia
MA - Methylamine
FM - Formaldehyde
MV - Mercury vapor
SA - Supplied-Air
CF - Continuous flow
PD - Pressure demand
HS(esc) - Hydrogen sulfide (escape only)

- 2. CAUTIONS AND LIMITATIONS
A - Not for use in atmospheres containing less than 19.5 percent oxygen.
B - Not for use in atmospheres immediately dangerous to life or health.
C - Do not exceed maximum use concentrations established by regulatory standards.
D - Air-line respirators can be used only when the respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
E - Use only the pressure ranges and hose lengths specified in the User's Instructions.
G - If airflow is cut off, switch to filter and/or cartridge and immediately exit to clean air.
H - Follow established cartridge and canister change schedules or observe ESL to ensure that cartridges and canisters are replaced before breakthrough occurs.
K - The Occupational Safety and Health Administration regulations require gas-proof goggles to be worn with this respirator when used against formaldehyde.
J - Failure to properly use and maintain this product could result in injury or death.
L - Follow the manufacturer's User's Instructions for changing cartridges, canister and/or filters.
M - All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
N - Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
P - NIOSH does not evaluate respirators for use as surgical masks.
S - Special or critical User's instructions and/or specific use limitations may apply. Refer to User's Instructions before donning.