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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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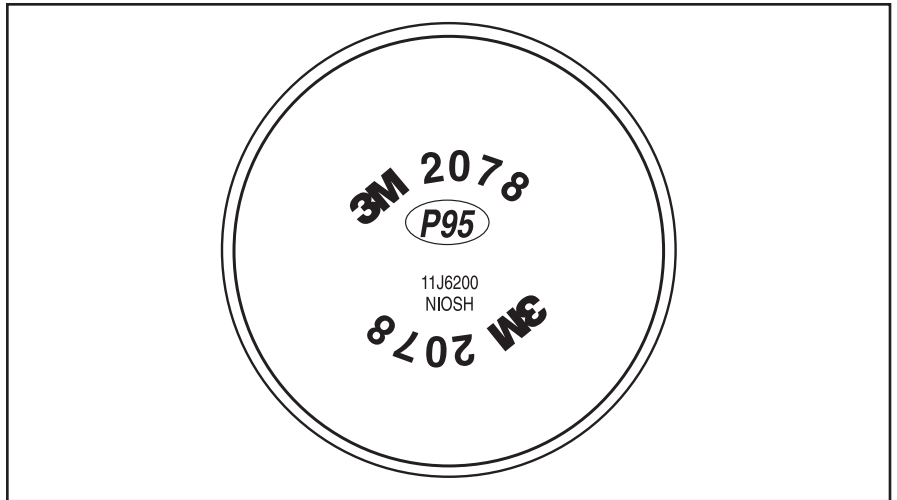
# Particulate Filter 2078, P95 with Nuisance Level Acid Gas and Organic Vapor Relief\*

Issue Date 9/1/09

The 3M™ Particulate Filter 2078, P95 with 3M™ Advanced Electret Media technology has been developed with your respiratory needs in mind.

The 2078 provides you and your workers:

- **NIOSH approved P95.** At least 95% filtration efficiency against solid and liquid aerosols including oils.<sup>1</sup>
- **Comfort.** 3M's advanced filter technology provides a lightweight, easy breathing combination not found in fiberglass containing filters.<sup>2</sup>
- **Versatile protection.** The 2078 is well suited for a wide range of oil and non-oil based particulate contaminants, as well as certain nuisance-level organic vapors and acid gases.\*
- **Simplicity.** The versatility of this filter reduces your inventory and training requirements. The design makes the product easy for workers to use.
- **Compatibility.** The 2078 can be used with 3M's wide variety of half and full facepieces.<sup>3</sup>
- **Durability.** Unique flexible filter material enables the product to be worn in close quarters. Its rugged construction resists abrasion and wetting.



3M™ Particulate Filter 2078, P95

- **Economy.** The 2078, excellent for nuisance level odors, is priced considerably lower than filter/cartridge combinations.

### Suggested Applications:



- Utilities operations
- Chemical manufacturing



- Welding
- Torch cutting
- Brazing
- Soldering



- Aluminum smelting



**WARNING**

These filters help protect against certain particles. **Misuse may result in sickness or death.** Before use, the wearer must read and understand *User Instructions* provided as a part of product packaging. Time use limitations may apply. For proper use, see package instructions, supervisor or call 3M OH&ESD Technical Service in U.S.A., 1-800-243-4630. In Canada, call 1-800-267-4414.

**Additional use instructions, product limitations, approval labels, and warnings are included with each facepiece and filter package.**

\*3M recommended for relief against nuisance levels of organic vapors and acid gas. Nuisance level refers to concentrations not exceeding OSHA PEL or applicable exposure limits, whichever is lower. Do not use for respiratory protection against organic vapors or acid gases.

### References:

1. Tested against particles approximately 0.3 micron in size (mass median aerodynamic diameter) per 42 CFR 84.
2. The 2078 filter contains no components made from fiberglass.
3. The 2078 filter can be used as a stand-alone filter with 3M™ 6000, 7500, 7800 and Ultimate FX FF-400 Series Facepieces or as a prefilter with 3M™ 5000 Series Respirators and 6000 Series Cartridges (use with 502 adapter).



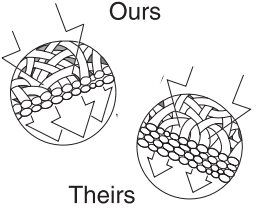
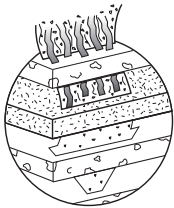

## Use For:

- 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.
- Relief from nuisance levels of acid gases\* such as Sulfur Dioxide, Hydrogen Fluoride and/or Chlorine below the OSHA PEL, or applicable exposure limits, whichever is lower.
- Organic vapors below the OSHA PEL, or applicable exposure limits, whichever is lower.
- 3M recommended for ozone protection up to 10 times the OSHA PEL.\*\*

## Do Not Use For:

- Gases and vapors when concentrations exceed the OSHA PEL, or applicable exposure limits, whichever is lower, including those present in paint spray operations, unless combined with approved chemical cartridges.
- Asbestos.
- Sandblasting.
- Oxygen deficient atmospheres.
- Concentrations that exceed:
  - 10 times the permissible exposure limit (PEL) with half facepiece, or
  - 10 times the PEL with full facepiece qualitatively fit tested, or

## Technologies

 <p>Ours</p> <p>Theirs</p>		
<p><b>Advanced Electret Media</b> Advanced electrostatically charged microfibers make breathing easier and cooler.</p>	<p><b>Odor-Removing Filter Material</b> Carbon layers remove many nuisance level odors for greater comfort and productivity.</p>	<p><b>P-Series Filter</b> Featuring Advanced Electret Media, appropriate for prolonged use in both oil- and non-oil-containing environments.</p>

- 50 times the PEL with full facepiece quantitatively fit tested, or
- applicable government regulations, whichever is lower.

## Important

Before using these filters, you must determine the following:

1. The type of contaminant(s) for which the respirator is being selected.
2. The concentration level of contaminant(s).
3. Whether the respirator can be properly fitted on the wearer's face. Do not use with beards, other facial hair, or other conditions that prevent a good seal between the face and the facepiece of the respirator.
4. Before use of these respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134, including training, medical evaluation and fit testing.

**\*3M recommended** for relief against nuisance levels of organic vapors and acid gas. Nuisance level refers to concentrations not exceeding OSHA PEL or applicable exposure limits, whichever is lower. Do not use for respiratory protection against organic vapors or acid gases.

**\*\*3M recommended** for ozone protection up to 10 times the OSHA PEL. Not NIOSH approved for ozone.

Filters Per Bag	Filters Per Case
2	100

## Time Use Limitation

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

## For more information, please contact:

**3M Occupational Health and Environmental Safety Division (OH&ESD)**

### In the U.S., contact:

**Customer Service**  
1-800-328-1667

**Technical Assistance**  
1-800-243-4630

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

**For other 3M products**  
1-800-3M HELPS

### In Canada, contact:

3M Canada Company, OH&ESD  
P.O. Box 5757  
London, Ontario N6A 4T1

**Customer Care**  
1-800-364-3577

**Technical Assistance (Canada only)**  
1-800-267-4414

**Website**  
[www.3M.ca/safety](http://www.3M.ca/safety)

### Technical Assistance In Mexico

01-800-712-0646  
5270-2255, 5270-2119 (Mexico City only)

**Technical Assistance In Brazil**  
0800-132333



**Occupational Health and Environmental Safety Division**

3M Center, Building 235-2E-91  
St. Paul, MN 55144-1000