

# Particulate Filter 2097 P100 with Nuisance Level Organic Vapor Relief\*

Issue Date 9/14/01

The 3M™ Particulate Filter 2097 P100 has been developed with your respiratory needs in mind. Specially designed carbon layers remove nuisance levels of organic vapors.\*

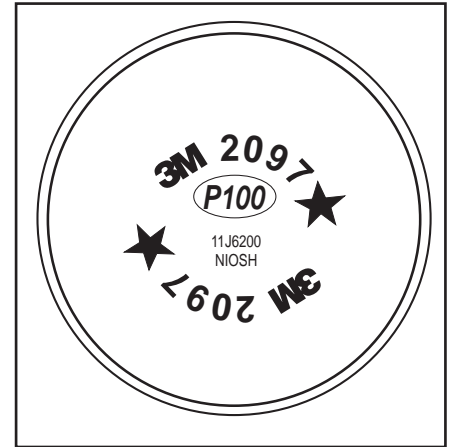
The 2097 provides you and your workers:

- **Comfort.** 3M's Advanced Electret Media (AEM) provides a lightweight, easy breathing combination not found in fiberglass containing filters.<sup>1</sup>
- **Versatile protection.** The 2097 is well suited for a wide range of oil and non-oil based particulate contaminants. Ideal for welding, metal pouring, torch cutting, abatement or as a prefilter for certain chemical exposures.
- **Simplicity.** The versatility of this filter reduces your inventory and training requirements.
- **Compatibility.** The 2097 can be used with 3M's wide variety of half and full facepiece designs.<sup>2</sup>
- **Exceptional filter efficiency.** Passing NIOSH's P-series test criteria, the 2097 P100 filter provides a minimum 99.97% filter efficiency.<sup>3</sup>

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

**References:**

1. The 2097 filter contains no components made from fiberglass.
2. The 2097 filter can be used as a stand-alone filter with 3M™ 6000, 7000, 700X and 7800 Series Facepieces or as a prefilter with 3M™ 5000 Series Respirators and 6000 Series Cartridges (use with 502 adapter).
3. At least 99.97% filtration efficiency when subjected to a 0.3 µm MMAD DOP particle challenge. Filter performance will be greater against larger or smaller sized oil and non-oil based particles.



3M™ 2097 P100 Particulate Filter.

**Suggested Applications**



- Chemical manufacturing
- Undercoating



- Welding
- Brazing
- Soldering
- Torch cutting
- Metal pouring






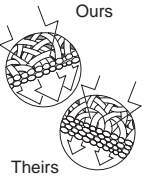
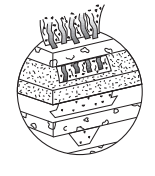
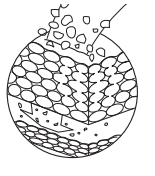
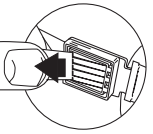

- OSHA substance specific particle exposures:
  - Lead
  - Asbestos
  - Cadmium
  - Arsenic
  - 4,4'–Methylenedianiline (MDA)
- Pharmaceutical manufacturing



**⚠ WARNING**

This filter helps protect against certain particles. Misuse may result in sickness or death. For proper use, see supervisor or instructions or call 3M OH&ESD Technical Service in U.S.A., 1-800-247-3941. In Canada, call 1-800-267-4414.

**Technologies** (Check marks indicate technologies featured in this product.)

							
<b>Cool Flow™ Exhalation Valve.</b> Patented one-way valve for easy exhalation and cool, dry comfort.	<b>M-noseclip.</b> Adjusts easily for fewer pressure points and greater comfort.	<b>Faceseal.</b> Soft and secure, conforms closely to face for long-lasting comfort and protection.	<b>Advanced Electret Media.</b> Advanced electrostatically charged microfibers make breathing easier and cooler.	<b>Odor-removing filter material.</b> Carbon layers remove many nuisance odors for greater comfort and productivity.	<b>Cake-resistant filter media.</b> Specially designed filter layers provide longer respirator life and easier breathing.	<b>Fully adjustable straps.</b> A single tug helps provide a comfortable, secure fit.	<b>P-series filter.</b> Featuring Advanced Electret Media, appropriate for prolonged use in both oil- and non-oil-containing environments.
			✓	✓			✓

Filters Per Bag	Filters Per Case
2	100

- Organic vapors below the OSHA PEL or applicable government standards, whichever is lower. 3M recommended for ozone protection up to 10 times the OSHA PEL.

**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 above the OSHA PEL, including those present in paint spraying operations, unless combined with approved chemical cartridges. Sandblasting. Aerosol concentrations that exceed 10 times the OSHA PEL, with a half facepiece, or 50 times the PEL with a full facepiece or applicable government regulations, whichever is lower. This respirator filter does not supply oxygen.

**Time Use Limitation:**

If filter becomes damaged, soiled, or breathing becomes difficult, leave the contaminated area 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:**

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

**Technical Assistance**  
1-800-243-4630  
**Sales Assistance/Local Distributor**  
1-800-328-1667  
**Fax On Demand**  
1-800-646-1655  
**Internet**  
[www.3M.com/occsafety](http://www.3M.com/occsafety)  
**E-mail**  
[occsafety@mmm.com](mailto:occsafety@mmm.com)  
**For other 3M products**  
1-888-3M HELPS

**In Canada, contact:**

3M Canada Company, OH&ESD  
P.O. Box 5757  
London, Ontario N6A 4T1  
**Technical Assistance (Canada only)**  
1-800-267-4414  
**Sales Assistance**  
1-800-265-1840, ext. 6137  
**Internet**  
[www.3M.com/CA/occsafety](http://www.3M.com/CA/occsafety)  
**3M Canada E-mail**  
[ohes@ca.mmm.com](mailto:ohes@ca.mmm.com)  
**Technical Assistance In Mexico**  
01-800-712-0646  
**Technical Assistance In Brazil**  
0800-550705