



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Particulate Filter 2096, P100 with Nuisance Level Acid Gas Relief\*

Issue Date 9/1/09

The 3M™ Particulate Filter 2096, P100 has been developed with your respiratory needs in mind. Specially designed carbon layers help provide relief against nuisance levels of acid gases.\*

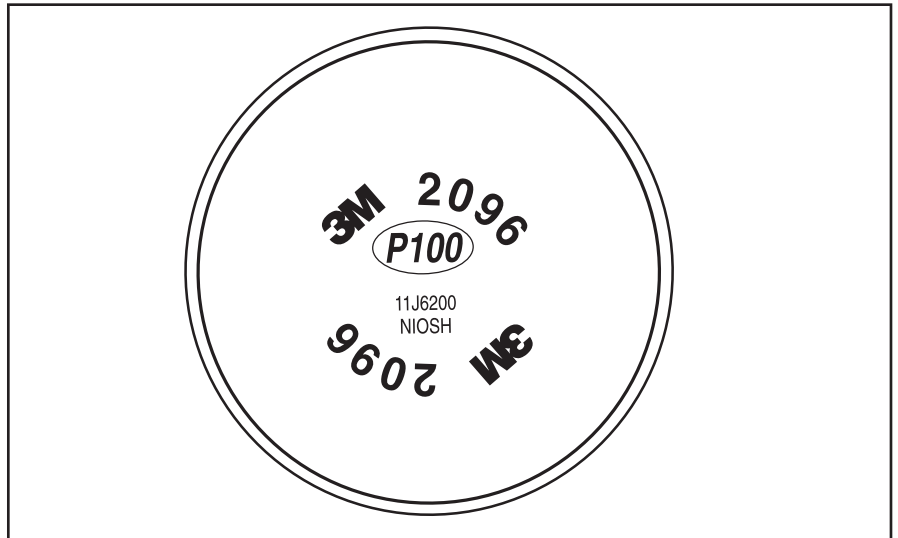
The 2096 provides you and your workers:

- **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 2096 is well suited for a wide range of oil and non-oil based particulate contaminants and can be used as a prefilter for certain chemical exposures.
- **Simplicity.** The versatility of this filter reduces your inventory and training requirements.
- **Compatibility.** The 2096 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 2096 P100 filter provides a minimum 99.97% filter efficiency.<sup>3</sup>
- **Durability.** The unique flexible filter material resists abrasion and wetting. Filters are flame and water resistant.

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

**References:**

1. The 2096 filter contains no components made from fiberglass.
2. The 2096 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).
3. Tested against particles approximately 0.3 micron in size (mass median aerodynamic diameter) per 42 CFR 84.



3M™ Particulate Filter 2096, P100

**Suggested Applications:**



- Utility operations
- Chemical manufacturing



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



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



- 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.**



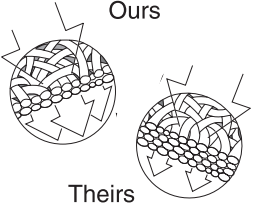
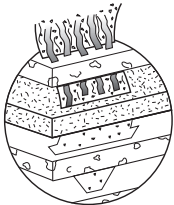

**Use For:**

- 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.
- Relief against nuisance levels of acid gases\* such as Sulfur Dioxide, Hydrogen Fluoride and/or Chlorine below the OSHA PEL or applicable government standards, whichever is lower.

**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.
- Oxygen deficient atmospheres.
- Aerosol 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
  - 50 times the PEL with full facepiece quantitatively 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>

– 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 acid gas. Nuisance level acid gas refers to concentrations not exceeding OSHA PEL or applicable exposure limits, whichever is lower. Not NIOSH approved for acid gases. Do not use for respiratory protection against acid gases.

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