



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!



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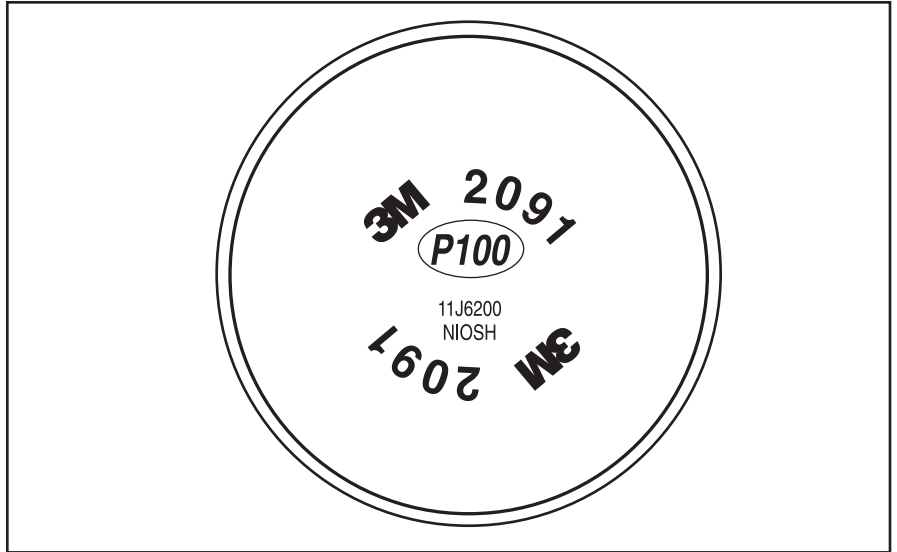
Particulate Filter 2091, P100

Issue Date 9/1/09

The 3M™ Particulate Filter 2091, P100 has been developed with your respiratory needs in mind.

The 2091 provides you and your workers:

- **Comfort.** 3M's Advanced Electret Media (AEM) provides a lightweight, easy breathing combination not found in fiberglass containing filters.¹
- **Versatile protection.** The 2091 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 2091 can be used with 3M's wide variety of half and full facepiece designs.²
- **Exceptional filter efficiency.** Passing NIOSH's P-series test criteria, the 2091 P100 filter provides a minimum 99.97% filter efficiency.³
- **Durability.** The unique flexible filter material resists abrasion and wetting. Filters are flame and water resistant.
- **Economy.** The 2091 is priced competitively with other filters in its class.



3M™ Particulate Filter 2091, P100

Suggested Applications:



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



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



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.

References:

1. The 2091 filter contains no components made from fiberglass.
2. The 2091 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 2091, P100

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, including those present in paint spray 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
 - applicable government regulations, whichever is lower.

Important

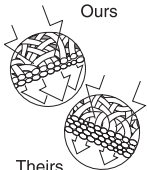

Before using these filters, you must determine the following:

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 faceseal 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.

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.

Technologies

 <p>Ours</p>	 <p>Theirs</p>
<p>Advanced Electret Media Advanced electrostatically charged microfibers make breathing easier and cooler.</p>	<p>P-Series Filter Featuring Advanced Electret Media, appropriate for prolonged use in both oil- and non-oil-containing environments.</p>

Filters Per Box	Filters Per Case
2	100



Occupational Health and Environmental Safety Division
3M Center, Building 235-2E-91
St. Paul, MN 55144-1000

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

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

Technical Assistance In Mexico

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

Technical Assistance In Brazil
0800-132333