



# 6000 Series Full Face Mask Respirators

Data Sheet



## Main Features

The 3M™ 6000 Series Respirators are used with twin lightweight filters, which are fitted by a simple bayonet attachment system, providing an economical and flexible choice.

### The main features include:

- Reusable, low maintenance respirator.
- Lightweight, well-balanced respirator with soft silicone nose cup ensures comfort during long periods of work.
- Flexible System (gas & vapours and / or particulate filters).
- Twin filter design provides lower breathing resistance, a more balanced fit, and improves field of vision.
- Cost effective replacement filters.
- Safe, secure Bayonet filter attachment system.
- Wide field of vision with a scratch and chemical resistant polycarbonate lens.
- Easy and secure fitting.
- 3 sizes (small - 6700, medium – 6800, large - 6900)
- Spectacle Kit available.
- Maximum Product Weight (With filters): 678 grams.

The 6000 Series Respirators can be used with a variety of different filter options:

**Gas and Vapour Filters:** The filters generally protect against either single or multiple contaminant type(s) and against particulates when combined with a particulate filter.

- The **6000 Series** filters fit directly onto the respirator.

**Particulate filters:** These filters provide protection against solid and non-volatile liquid particles.

- The **2000 Series** particulate filters fit directly onto the respirator.
- The **5000 Series** particulate filters may be used on their own with platform 603 and 501 retainers.
- The 6035 are encapsulated P3 filters, which fit directly onto the respirator.

### Combination of Gas & Vapour and Particulate filters:

- The **5000 Series** particulate filters can be used with **6000 Series** Gas and Vapour filters using 501 retainers excluding the 6035, 6096, 6098, and 6099.

## Applications

### Gas & Vapour Filters:

FILTER	HAZARD	INDUSTRY
6051(A1) 6055 (A2)	Organic Vapours (b.pt. < 65°C)	- Anywhere conventional paints are used (non-Isocyanates, subject to usage conditions) - Vehicle manufacture - Aircraft manufacture and refurbishment - Boat Building - Ink and dye manufacture and use - Adhesive manufacture and use - Paint and varnish manufacture - Resin manufacture and use
6054 (K1)	Ammonia & derivatives	- Manufacture and Maintenance of refrigeration equipment - Spraying and handling Agrochemicals
6057 (ABE1)	Combination organic vapours, inorganic & acid gases	As 6051, but including: - Electrolytic processes - Acid Cleaning - Metal Pickling - Metal Etching
6059 (ABEK1)	Combination organic vapours, inorganic & acid gases & Ammonia	As 6057 & 6054
6075 (A1 + Formaldehyde)	Organic Vapours & Formaldehyde	As 6051 but also: - Hospitals and Laboratories
6096 (HgP3)	Mercury vapour & Particulates	- Use of Mercury & Chlorine - Particulate applications
6098 (AXP3)	Organic Vapours (b.pt. < 65°C) & Particulates	- Chemical Industry - Particulate applications
6099 (ABEK2P3)	Organic Vapours, Inorganic Gases, Acid Gases, Ammonia & Particulates	As 6059 But also: -Particulate applications

**Particulate Filters:**

FILTER	HAZARD	INDUSTRY
5911 (P1) 5925 (P2) 5935 (P3) 2125 (P2) 2135 (P3) 6035 (P3)	Particulates (Fine Dusts & Mists)	- Pharmaceutical / Powdered Chemicals - Construction / Quarrying - Ceramics / Refractory materials - Foundries - Agriculture - Woodworking - Food Industry
2128 (P2) 2138 (P3)	Particulates & nuisance levels of Organic Vapours & Acid Gases	- Welding - Paper Industry - Brewing - Chemical Processing - Typical Smog - Inks and Dyes

**Approvals**

The 3M 6000 Series Respirators and 6000/5000/2000 Series Filters have been shown to meet the Basic Safety Requirements under Article 10 and 11 B of the European Community Directive 89/686, and are thus CE-marked.

These products were examined at the design stage by: BSI Product Services, Maylands Avenue, Hemel Hempstead, Herts, HP2 4SQ, England (Notified Body 0086).

**Standards**

These products have been tested to the relevant European Standards:

- 6000 Series Full Face Masks to EN136: 1998 Class 1.
- Relevant performance requirements (Protection against high speed particles, medium energy) of EN166: 2001 (Eye Protection).
- 6000 Series Gas and Vapour filters including 6051, 6054, 6055, 6057, 6059, 6075, 6096, 6099 to EN141: 2000.
- 6098 to EN371: 1992
- 2000 and 5000 Series and 6035 Particulate filters to EN143: 2000.

**Correct Usage****When the 6000 Series Full Face Mask is fitted with 6000 Series Gas & Vapour Filters:**

- 6000 Series gas and vapour filters may be used in concentrations of gases or vapours (types specified by 3M) up to 200 x the Threshold Limit Value (TLV) or 1000ppm (5000ppm for 6055 and 6099) whichever value is lower.
- 6098 filters please see Instructions for Use or contact 3M for further information.
- 6000 Series gas and vapour filters should not be used to protect the wearer against a gas or vapour that has poor warning properties (smell or taste).

**When the 6000 Series Full Face Mask is fitted with 2000 or 5000 Series Particulate Filters:**

- 5911 filters may be used in concentrations of particulates up to 4 x TLV.

- 5925, 2125 or 2128 filters may be used in concentrations of particulates up to 16 x TLV.
- 5935, 2135, 2138 or 6035, may be used in concentrations of particulates up to 200 x TLV.
- 2128 and 2138 filters may be used to protect against ozone up to 10 x TLV and offers relief from acid gases and organic vapours at levels below the TLV.

**Cleaning and Storage**

Cleaning is recommended after each use.

1. Disassemble by removing the filters, nose cup, centre adapter, lens, head straps and face seal.

2. Clean and sanitize the mask (excluding filters) using 3M™ 105 Face Seal Cleaner or immersing in warm cleaning solution of water and household soap, and scrubbing with a soft brush until clean.

Parts may also be cleaned in a domestic washer.

! Water temperature should not exceed 50°C. Do not use cleaning agents that contain lanolin or other oils. Do not autoclave.

3. Disinfect respirator by soaking in a solution of quaternary ammonium disinfectant or sodium hypochlorite or other disinfectant.

4. Rinse in fresh, warm water and air-dry in non-contaminated atmospheres.

**Use Limitations**

1. These respirators do not supply oxygen. Do not use in atmospheres containing less than 19.5%\* oxygen.
2. Do not use for respiratory protection against atmospheric contaminants that have poor warning properties or are unknown or immediately dangerous to life and health (IDLH) or against contaminants, which generate high heats of reaction with chemical filters.
3. Do not misuse, alter, modify or repair this product.
4. Do not use with beards or other facial hair that prevent direct contact between the face and the edge of the respirator.
- 5 Do not use with unknown concentrations of contaminants.
- 6 Do not use for escape purposes.
7. Leave the work area immediately and check the integrity of the respirator and replace face mask if:
  - i) Damage has occurred or is apparent.
  - ii) Breathing becomes difficult or increased breathing resistance occurs.
  - iii) Dizziness or other distress occurs.
  - iv) You taste or smell the contaminant or an irritation occurs.
8. Store this device in a sealed container away from contaminated areas when not in use.
9. Use strictly in accordance with respirator and filter user instruction leaflet.

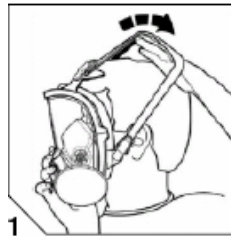
**\* 3M definition minimum 19.5% by volume oxygen**

## Fitting Instructions

Before assigning any respirator to be worn in a contaminated area, we recommend that a qualitative or quantitative fit check be performed before entering the workplace.

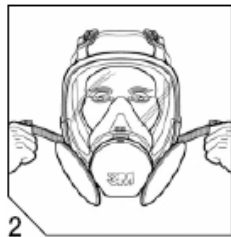
Fitting instructions must be followed each time the respirator is worn.

1. Fully loosen all four head straps, then place the harness at back of head and position respirator over the face.



2. Pull the ends of the four straps to adjust tightness, starting with the neck straps first, then the forehead straps.

Do not over tighten the head straps.



## Fit Check

Perform a positive and/or negative pressure fit check each time the respirator is donned.

### Positive pressure Face Fit check (all Filters except 3M™ 6035 / 2000 Series Filters).

1. Place the palm of the hand over the exhalation valve cover and exhale gently.
2. If the respirator bulges slightly and no air leakage between the face and the respirator is detected, a proper fit has been achieved.
3. If air leakage is detected, reposition the respirator on the face and/or readjust the tension of the strap to eliminate the leakage.
4. Repeat the above face fit check.
5. If you cannot achieve a proper fit, do not enter the contaminated area. See your supervisor.



### Negative pressure face fit check (3M™ 6035 / 2000 Series Filters).

1. Push the filter cover down or press your thumbs into the central indentation of the filters, inhale gently and hold your breath for five or ten seconds.
2. If the respirator collapses slightly, a proper fit has been achieved.
3. If air leakage is detected, reposition the respirator on the face and/or readjust the tension of the straps to eliminate the leakage.
4. Repeat the above face fit check.
5. If you cannot achieve a proper fit, do not enter the contaminated area. See your supervisor.



## Materials

PART	MATERIAL
Face Mask	Thermoplastic Elastomer
Head Harness	Polyethylene
Inhalation Valve	Natural Rubber
Exhalation Valve	Silicone Rubber
Gasket	Silicone Rubber
6000 Filter Body	Polystyrene
6000 Filter Element	Activated / Treated Carbon
5000 / 2000 Series Filter material	Polypropylene
Lens	Polycarbonate

## Spare Parts and Accessories

Part No.	Description
6895	Inhalation Gasket
6893	Inhalation Valves
7583	Exhalation Valve
6864	Centre Adapter Assembly
6896	Centre Port Adapter Gasket
6897	Head Harness Assembly
6898	Lens Assembly
6885	Lens Covers (x25)
6878	Spectacle Kit
7883	Neck Strap Assembly
501	Retainer for 5000 Series Filters
603	Particulate Filter Platform
105	Face Seal Cleaner

! Respiratory Protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants.

3M offers advice on the selection of products, and training in the correct fitting and usage.

**For more information on 3M products and services please call the 3M Health & Safety Helpline.**



Occupational Health and Environmental Safety Group  
3M PLC

☎ 012345678910

<http://www.3m.com/healthsafety>