



# 6000 Series Full Face Respirators



Data Sheet

## Main Features

The 6000 Series Full Face Respirators are used with twin lightweight filters which are fitted by a simple bayonet attachment system, providing an economical and flexible choice. The Respirators can also be used with the 3M S-200 Supplied-Air System for increased convenience and flexibility.

- Lightweight and well balanced
- Flexible system (gas / vapour and / or particulate filters plus Supplied-Air option)
- Silicone facepiece material
- Easy to use
- Wide field of vision and impact resistance with a polycarbonate lens.
- 3 sizes (6700 - small, 6800 - medium, 6900 - large)
- Low maintenance
- Economical
- Spectacle kit available

## Applications

The 6000 Series full facepieces can be used with a variety of different filter / product options :

- **Gas and vapour filters** - The 6000 Series filters fit directly onto the 6000 Series full facepieces.
- **Particulate filters** - The 2000 Series, 6035 and 6038 particulate filters fit directly onto the 6000 Series full facepiece. The 5911/5925/5935 particulate filters may be used on their own with platform 603 & retainer 501.
- **A combination of gas / vapour and particulate filters** - The 5911 / 5925 / 5935 particulate filters can be used with 6000 Series gas / vapour filters using retainer 501.
- **Supplied-Air mode using the 3M S-200 Respirator System** (For information on the Supplied-Air System and applications please see the 3M S-200 Data Sheet).

The table below lists the filters and typical industrial applications.

## Gas/Vapour

| FILTER                   | HAZARD   | INDUSTRY   |
|--------------------------|--|--|
| 6051/6055 (A1/A2)        | Organic Vapours  | - Anywhere conventional paints are used (subject to usage conditions)<br>- Vehicle manufacture<br>- Aircraft manufacture and refurbishment<br>- Boat building<br>- Ink and Dye manufacture and use<br>- Adhesive manufacture and use<br>- Paint and varnish manufacture<br>- Resin manufacture and use |
| 6054 (K1)                | Ammonia  | - Manufacture and Maintenance of refrigeration equipment<br>- Agrochemicals  |
| 6057 (ABE1)              | Organic Vapours, Inorganic and Acid Gases                | As 6051 but also:<br>- Electrolytic processes<br>- Acid Cleaning<br>- Metal Pickling<br>- Metal Etching  |
| 6059 (ABEK1)             | Organic Vapours, Inorganic Gases, Acid Gases and Ammonia | As 6057 and 6054   |
| 6075 (A1) + Formaldehyde | Organic Vapours and Formaldehyde                         | As 6051 but also :<br>- Hospitals and Laboratories   |
| 6096 HgP3                | Mercury and particulates                                 | Laboratories and particulate applications  |
| 6098 (AXP3)              | Organic Vapours (boiling below 65°C) and Particulates    | - Chemical Industry  |
| 6099 (ABEK2 P3)          | Organic Vapours, Inorganic Gases, Acid Gases and Ammonia | As 6059 but also particulate applications  |

## Particulates

| FILTER  | HAZARD  | INDUSTRY   |
|---|---|--|
| 5911 P1 R<br>5925 P2 R<br>5935 P3 R<br>2125 P2 R<br>2135 P3 R<br>6035 P3 R<br>(EN143 :2000) | Particulates (Fine Dusts and Mists)   | - Pharmaceutical / Powdered Chemicals<br>- Construction / Quarrying<br>- Ceramics / Refractory Materials<br>- Foundries<br>- Agriculture<br>- Woodworking<br>- Food Industry |
| 2128 P2 R<br>2138 P3 R<br>(EN143 :2000)   | Particulates and nuisance levels of Organic Vapours and Acid Gases  | - Welding<br>- Paper Industry<br>- Brewing<br>- Chemical Processing<br>- Typical Smog<br>- Inks and Dyes   |
| 6038 P3 R<br>(EN143 :2000)  | Particulates, Hydrogen Fluoride Gas up to 30ppm and relief from Ozone, Organic Vapours and Acid Gases below WEL | Aluminium<br>Agriculture<br>Pharmaceutical<br>Welding  |

## Approvals

The 3M 6000 Series full face masks 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.

- Approval body for the facepieces:  
BSI identification number 0086
- Body involved in Quality Assurance Assessment:  
BSI identification number 0086

## Materials

- Facepiece - Silicone
- Head Harness - Silicone Rubber
- Inhale Valve - Natural Rubber
- Exhale Valve - Silicone Rubber
- Gasket - Silicone Rubber
- Filter Body (6000) - Polystyrene
- Filter Element (6000) - Activated/Treated Carbon
- Filter Material (5911 / 5925 / 5935 and 2000 Series) - Polypropylene
- Lens - Polycarbonate

Maximum Product Weight:

- With filters 850 grams
- Without filters 410 grams

## Standards

These products have been tested to the relevant European Standards (EN136 (class I), EN141, EN143, EN371, EN14387) and have met the requirements shown below:

- Facepiece EN136 (6700, 6800, 6900)
- Filter Performance EN143:2000 (5911, 5925, 5935, 6035, 6038, 2000 Series)  
EN141:2000 (6054, 6057, 6059, 6075, 6096, 6099)  
EN371 (6098)  
EN14387:2004 (6051, 6055)
- Flammability EN136 (6700, 6800, 6900)
- Visor - Eye protection to EN166:2001 B. Protection against medium energy high speed particles (120m/s).

## Correct Usage

The 6000 Series full facepieces when fitted with 6000 Series gas / vapour filters may be used in concentrations of gases or vapours (types specified by 3M) up to 20 times WEL\* or 1000 ppm (5000 ppm for 6055 / 6099) whichever value is lower (APF = 20)\*\*. Gas / vapour filters should not be used to protect the wearer against a gas or vapour that has poor warning properties (smell or taste).

- The 6000 Series full facepieces when used in conjunction with the 5911 filter may be used in concentrations of solid and aqueous aerosols up to 4 times WEL (APF = 4).
- The 6000 Series full facepieces when used in conjunction with the 5925, 2125, or 2128 filters may be used in concentrations of particulates up to 10 times WEL (APF = 10).
- The 6000 Series full facepieces when used in conjunction with the 5935, 2135, 6035, 6038, or 2138 may be used in concentrations of particulates up to 40 times WEL (APF = 40).
- The 6000 Series full facepieces when used in conjunction with the 2128 and 2138 may be used to protect against ozone up to 10 times WEL (APF = 10) and offer relief from nuisance odours and acid gases below the WEL.
- The 6000 Series facepieces when used with the 6038 filter may be used to protect against Hydrogen Fluoride gas up to 30ppm and offer relief from Ozone, Organic Vapours and acid gases below WEL.
- The 6000 Series full facepieces when used in conjunction with the 6075 filter may be used to protect against organic vapours as outlined above and against formaldehyde vapour up to 10 times WEL (APF = 10).
- **For use limitations on 6000 Series full facepieces fitted with 6098 filters, please contact 3M.**

\*WEL - Workplace Exposure Limit

\*\* APF - Assigned Protection Factor

## Cleaning and Storage

For cleaning after use the 3M 105 face piece cleaner can be used

- Disassemble by removing the filters and nose cup.
- The centre adapter, lens and faceseal can also be removed if necessary.
- Clean and sanitise the facepiece (excluding cartridges and filters) by immersing in warm cleaning solution and scrub with soft brush until clean. Parts may also be cleaned in a washer.

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

- Disinfect respirator by soaking in a solution of quaternary ammonia disinfectant or sodium hypochlorite (50ppm chlorine).
- Rinse in fresh, warm water and air dry in a non-contaminated atmosphere. Drying temperatures must not exceed 50°C.
- Respirator components, especially exhalation valve and seat, should be inspected prior to each use. Any damaged or deteriorated components should be replaced.
- The cleaned respirator should be stored at ambient temperature in a dry non-contaminated atmosphere.

## Face Fitting

Positive pressure facefit check:

- Place the palm of the hand over the exhalation valve cover and exhale gently.
- If the facepiece bulges slightly and no air leaks between the face and the facepiece are detected, a proper fit has been achieved.
- If air leakage is detected, reposition the respirator on the face and/or readjust the tension of the straps to eliminate the leakage.
- Repeat the above facefit check.

Negative pressure facefit check:

- For the 2000 Series filters, press your thumbs into the central indentation of the filters, inhale gently and hold your breath for five or ten seconds.
- For the 6035 and 6038 filters, pinch the filter between thumb and fingers to seal the filter cover to the body of the filter, inhale gently and hold your breath for five or ten seconds. If the facepiece collapses slightly a proper fit has been achieved.
- If air leakage is detected, reposition the respirator on the face and/or readjust the tension of the straps to eliminate the leakage.
- Repeat the above facefit check.

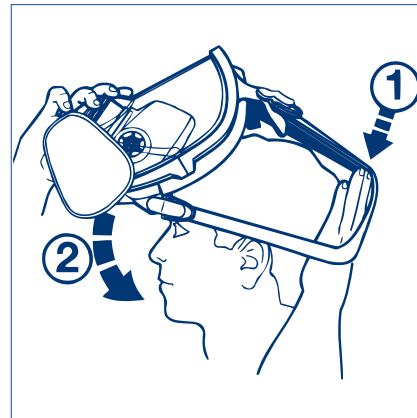
## Fit Testing

The 6000 Full Face Mask is a tight fitting facepiece and therefore requires a fit test per wearer before use as per the COSHH regulations 2002.

For quantitative fit testing - the 3M 601 adaptor is available.

## Fitting Instructions

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 facepiece 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.



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



## 3M Spare Parts and Accessories

| Part No. | Description                 |
|----------|-----------------------------|
| 7583 (A) | Exhalation valve            |
| 6893 (B) | Inhalation valve            |
| 6895 (C) | 6000 Series gaskets         |
| 6897 (D) | Head harness assembly       |
| 6898 (E) | Lens assembly kit           |
| 6878 (F) | Spectacle kit               |
| 6885 (G) | Lens covers (100 pack)      |
| 7883 (H) | Neck strap Assembly         |
| 501      | Retainer for 5911/5925/5935 |
| 603      | Particulate filter platform |
| 105      | Facepiece cleaner           |

## Use Limitations

- These respirators do not supply oxygen.  
**Do not use in oxygen deficient atmospheres \***
- Do not use for respiratory protection against atmospheric contaminants which have poor warning properties, are unknown or immediately dangerous to life and health or against chemicals which generate high heats of reaction with chemical filters.  
(The 3M S-200 Supplied-Air Respirator System can be used against contaminants with poor warning properties, subject to other use limitations)
- Do not modify or alter this device.
- The assembled respirator may not provide a satisfactory face seal with certain physical characteristics (such as beards or large side burns) resulting in leakage between the facepiece and the face, the user assumes all risks of bodily injury which may possibly result.
- Do not use with unknown concentrations of contaminants.
- Do not use for escape purposes.
- Leave the work area immediately and check the integrity of the respirator and replace facepiece and/or filters if:

- Damage has occurred or is apparent.
- Breathing becomes difficult or increased breathing resistance occurs.
- Dizziness or other distress occurs.
- You taste or smell the contaminant or an irritation occurs.

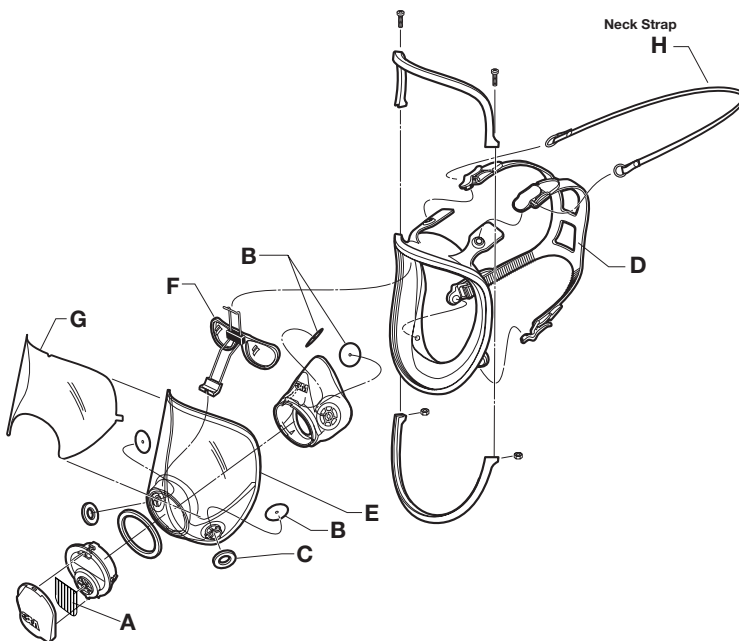
- Store this device in a sealed container away from contaminated areas when not in use.
- Use strictly in accordance with face piece and filter instruction leaflet.

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

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 advice on 3M Product Selection, ring the 3M Health and Safety Helpline on 0870 60 800 60. For callers within the Republic of Ireland, call 1-800-320 500.



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