



6000 Series Half-Mask Respirators

Data Sheet



Main Features

The 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 Respirators can also be used with the 3M S-200 Supplied-Air System for increased convenience and flexibility.

- Lightweight
- Flexible system (gas / vapour and / or particulate filters plus Supplied-Air option)
- Hypo-allergenic facepiece material
- Easy to use
- Well balanced
- 3 sizes (6100 - small, 6200 - medium, 6300 - large)
- Low maintenance
- Economical

Applications

Particulates

FILTER	HAZARD	INDUSTRY
5911 P1 5925 P2 5935 P3 2125 P2 2135 P3 (EN143)	Particulates (Fine Dusts and Mists)	- Pharmaceutical / Powdered Chemicals - Construction / Quarrying - Ceramics / Refractory Materials - Foundries - Agriculture - Woodworking - Food Industry
2128 P2 (EN143)	Particulates and nuisance levels of Organic Vapours and Acid Gases	- Welding - Paper Industry - Brewing - Chemical Processing - Typical Smog - Inks and Dyes
2136 P3 (EN143)	Particulates and nuisance levels of Acid Gases	- Paper Industry - Chemical Processing
2137 P3 (EN143)	Particulates and nuisance levels of Organic Vapours	- Welding - Brewing - Chemical Processing - Inks and Dyes

Gas/Vapour

FILTER	HAZARD	INDUSTRY
6051/6055 (EN141 A1/A2)	Organic Vapours	- Anywhere conventional paints are used (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 (EN141 K1)	Ammonia	- Manufacture and Maintenance of refrigeration equipment, Agrochemicals
6057 (EN141 ABE1)	Organic Vapours, Inorganic and Acid Gases	As 6051 but also: - Electrolytic processes - Acid Cleaning - Metal Pickling - Metal Etching
6059 (EN141 ABEK1)	Organic Vapours, Inorganic Gases, Acid Gases and Ammonia	As 6057 and 6054
6075 (EN141 A1) + For- maldehyde	Organic Vapours and For- maldehyde	As 6051 but also : - Hospitals and Laboratories

The table above lists the filters and typical industrial applications.

The 6000 Series half masks can be used in a variety of different filter / product options :

- **Gas and vapour filters** - The 6000 series filters fit directly onto the 6000 series half masks.
- **Particulate filters** - The 2000 series particulate filters fit directly on to the 6000 series half masks. 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 2000 series filters can be used with the 6000 series gas / vapour filters (Not 6098 or 6099) using the 502 adapter. The 5911 / 5925 / 5935 particulate filters can be used with 6000 series gas / vapour filters using retainer 501. **Note:** the 6098 or 6099 filters should not be used with the 6000 series half masks.

• **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).

Approvals

The 3M 6000/2000 series 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 bodies:

- 6000HM: Dantest (0200)
- 6000 Filters: BSI (0086)
- 5000 Filters: Dantest (0200)
- 2000 Filters: BSI (0086)

Materials

• Facepiece	-	Thermoplastic Elastomer
• Head Harness	-	Polyester / Cotton Elastic
• 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

Maximum Product Weight: 355 grams
(With filters)

Standards

These products have been tested to the relevant European Standards (EN140, EN141, EN143) and have met the requirements shown below:

- Face Piece EN140 (6100, 6200, 6300)
- Filter Performance
EN143 (5911, 5925, 5935, 2000 series)
EN141 (6051, 6054, 6055, 6057, 6059, 6075)
- Flammability EN140 (6100, 6200, 6300)
- Breathing Resistance
EN141 (6051, 6054, 6055, 6057, 6059, 6075)
EN143 (5911, 5925, 5935, 2000 series)

Correct Usage

The 6000 Series facepieces when fitted with 6000 Series gas/vapour filters may be used in concentrations of gases or vapours (types specified by 3M) up to 10 times OEL or 1000 ppm (5000 ppm for 6055) whichever value is lower. 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 facepieces when used in conjunction with the 5911 filter may be used in concentrations of solid and aqueous aerosols up to 4 times OEL.
- The 6000 Series facepieces when used in conjunction with the 5925, 2125, or 2128 filters may be used in concentrations of particulates up to 12 times OEL.
- The 6000 Series facepieces when used in conjunction with the 5935, 2135, 2136, or 2137 may be used in concentrations of particulates up to 50 times OEL.
- The 6000 Series facepieces when used in conjunction with the 2128 and 2137 may be used to protect against ozone up to 10 times OEL and offer relief from nuisance odours below the OEL.
- The 6000 Series facepieces when used in conjunction with the 2128 and 2136 may be used to offer relief from acid gases below the OEL.

Cleaning and Storage

1. Cleaning is recommended after each use. Remove the gas/vapour and/or particulate filters.
2. Clean the facepiece (excluding filters) with 3M 105 face seal cleaners or by immersing in warm cleaning solution, water temperature not to exceed 50°C and scrub with soft brush until clean. Add neutral detergent if necessary. Do not use cleaners containing lanolin or other oils.
3. Rinse in fresh, warm water and air dry in a non-contaminated atmosphere.
4. Respirator components, especially exhalation valve and seat, should be inspected prior to each use. A respirator with any damaged or deteriorated components should be discarded.
5. The cleaned respirator should be stored away from contaminated areas when not in use.

Fitting Instructions

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



1. Place the respirator over the mouth and nose, then pull the harness over the crown of the head.



2. Take the bottom straps in both hands, place them at the back of the neck and hook them together.



3. Tighten the top straps first by pulling on ends to achieve a comfortable and secure fit.



4. Tighten bottom straps using either front or rear adjustments. (Strap tension may be decreased by pushing out on back side of buckles).



5. Perform a positive and/or negative pressure fit check (see overleaf). The positive method is recommended.

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 elastic strap to eliminate the leakage.
- Repeat the above facefit check.

Negative pressure facefit check

- Place the palms of the hands (alternatively a piece of cardboard can be used to cover openings) over the open area 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 elastic strap to eliminate the leakage.
- Repeat the above facefit check.

If you cannot achieve a proper fit, do not enter the contaminated area. See your supervisor.

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 Respiratory Protection Helpline on 0800 525385 (Free of Charge). For Literature and General Enquiries, ring the 3M Customer Service Helpline on 0800 212490 (Free of Charge). For callers within the Republic of Ireland, call 1-800-320500.



**Occupational Health Group
3M United Kingdom PLC**

3M House, P.O. Box 1, Market Place,
Bracknell, Berkshire RG12 1JU

**Occupational Health Group
3M Ireland Limited**

Adelphi Centre, Upper Georges Street,
Dun Laoghaire, Co. Dublin, Ireland.

3M Spare Parts and Accessories

Part No.	Description
6895	6000 Series gaskets
501	Retainer for 5911/5925/5935
502	Adaptor for 2000 series
603	Particulate filter platform
105	Face piece cleaner

Use Limitations

1. These respirators do not supply oxygen.
Do not use in oxygen deficient atmospheres *
2. 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).
3. Do not modify or alter this device.
4. 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.
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 facepiece and/or filters 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 face piece and filter instruction leaflet.

* 3M definition minimum 19.5% by volume oxygen.