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

Gas/vapour

FILTER	HAZARD	INDUSTRY
6051 A1 6055 A2 (EN14387:2004)	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 K1 (EN141:2000)	Ammonia	Manufacture and Maintenance of refrigeration equipment Agrochemicals
6057 ABE1 (EN141:2000)	Organic Vapours, Inorganic and Acid Gases	As 6051 but also: Electrolytic processes Acid cleaning Metal Pickling Metal Etching
6059 ABEK1 (EN141:2000)	Organic Vapours, Inorganic Gases, Acid gases and Ammonia	As 6057 and 6054
6075 A1 & formaldehyde (EN141:2000)	Organic Vapours and Formaldehyde	As 6051 but also: Hospitals and Laboratories
6096 HgP3 (EN141:2000)	Mercury and particulates	Laboratories and particulate applications

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 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 Series half 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:
  DANTEST identification number 0200
- Body involved in Quality Assurance Assessment:
  BSI/UL identification number 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:	
- With filters	355 grams
- Without filters	85 grams

Standards

These products have been tested to the relevant European Standards as shown below:

Facepiece	EN140:1998 (6100, 6200, 6300)
Filter	EN141:2000 (6054, 6057, 6059, 6075 & 6096)
	EN14387:2004 (6051, 6055)
	EN 143:2000 (2125, 2128, 2135, 2138, 5911, 5925, 5935, 6035, 6038)

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 WEL or 1000 ppm (5000 ppm for 6055) whichever value is lower (APF = 10)*. 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 WEL (APF = 4)*.

- The 6000 Series 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 facepieces when used in conjunction with the 5935, 2135, 6038, 6035, or 2138 may be used in concentrations of particulates up to 20 times WEL (APF = 20)*.

- The 6000 Series 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 below the WEL.

- The 6000 Series facepieces when used in conjunction with the 2128 and 2138 may be used to offer relief from 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.

*WEL - Workplace Exposure Limit.

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).

Face Fitting

The negative pressure fit check is recommended when using the 6035, 6038 and 2000 Series filters; the positive pressure fit check is recommended when using other filters.

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 elastic strap 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 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 Health and Safety Helpline on 0870 60 800 60. For callers within the Republic of Ireland, call 1-800-320 500.

3M Spare Parts and Accessories

Part No.	Description
6895	6000 Series gaskets
501	Filter retainer for 5911, 5925 or 5935
603	Particulate filter platform
105	Facepiece 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.

3M

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