



# Technical Datasheet

## 3M™ Reusable Half Mask 3000 Series

### Main Features

The 3M 3000 Series Respirator is a versatile solution engineered to protect workers in a wide range of industries. Its lightweight, compact design can be used with filters, providing the user with chemical and/or particulate protection. The facepiece is made of a synthetic elastomer for a soft, comfortable and secure fit. It's an ideal elastomeric respirator for workers seeking comfort and protection at an affordable price.

#### The main features are:-

- Compact Design: Lightweight, low-profile, single-filter format allows for a broader field of view.
- Versatile Protection: Respirator can be used with a variety of filters for organic vapour protection, as well as filters for particulate protection.
- Comfort: Soft, elastomeric facepiece provides comfort with a secure fit.
- Two Sizes Available: Small/medium (3100) and medium/large (3200) - designed to fit a variety of face shapes and sizes.
- Snap-on Filters: Attach and detach filters in just one step.

### Applications

The 3M 3000 Series Respirators can be used with a variety of different filter options:

**Gas and Vapour Filters only:** The filters protect against organic vapours with boiling points >65°C. The filter fits directly onto the respirator.

**Particulate filters only:** These filters provide protection against mechanically and thermally generated solid and non-volatile liquid particles. The filters fit onto the respirator using the 3M™ Filter Holder 3700.

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

- The 3M™ Combination Filter 3391 has Particulate filter media integrated with the Gas and Vapour filter.
- The 3M™ Organic Vapour Filter 3351 can be combined with a 3M™ Particulate Prefilter 7725, using the 3M™ Filter Retainer 774 to provide a combination of gas, vapour and particulate protection.

### Standards

These products have been tested to the relevant Australian/ New Zealand and European Standards:

- 3M 3000 Series Respirators to AS/NZS 1716:2003, EN140: 1998.
- 3M 3000 Series Gas and Vapour filters and 7725 pre filter to AS/NZS 1716:2003, EN14387:2004 + A1:2008
- 3M 3000 Series Particulate filters to AS/NZS 1716:2003, EN143: 2000 + A1:2006.

### 3M™ 3000 Series Respirator Range



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## Filter table

NEW



- **Low Profile Design Allows a Wide Field of Vision**
- **Lightweight makes Long Period of Wear Bearable**
- **Soft, Elastomeric Face-fit Secures a Lasting Comfort**
- **Suggested Applications : Welding, Painting, Grinding, Abatement Activities, Chemical Handling and Mixing, and other Applications where Gas or Particulate Protection is required**

- \* Reliable, Convenient Respiratory Protection when Combined with Only 3M<sup>®</sup> 3000 Series Filters & Cartridges
- \* Unique Easy to Don / Doff Strap System
- \* Reusable - Just Dispose of the Cartridges/Filters when Used to Capacity
- \* Can be Used Cartridges or Filters by Purpose of Use

**3M.03.5105** Respirator, Half Facepiece, Single Cartridge, 3200, Medium

**3M<sup>®</sup> Filters & Cartridges for Reusable Facepiece Respirator Only 3000 Series, Providing Gas & Vapor Protection**  
Light Weight, Minimum 99.97% Filter Efficiency

### Particulate Filter,



(1) No.3700

(2) No.3744

- **The Construction is Lightweight for Enhanced Comfort, Longer Wear Time and Better Acceptance.**
- **Providing a Minimum 99.97% Filter Efficiency**
- **Usage : Combined with "3M" "3200" Single Cartridge Half Facepiece Respirator**
- **Certificated by Korea Occupational Safety and Health Agency**

**3M<sup>®</sup> "3744" Particulate Filter, Used Combine with "3700" Holder, Added Activated Carbon**

- \* For Particulate Exposures, Attach the Filter Holder to the Facepiece and then Insert the Particulate Filter into the Filter Holder

**(1) No. 3700 : Filter Holder, Using with Particulate Filter 3M<sup>®</sup> "3744"**

- \* This Filter Holder Quickly Snap Onto the Face Mask, Providing the User with an Economical Choice of Protection Levels.

**(2) No.3744 : Particular Filter, Used with filter holder 3M<sup>®</sup> "3700"**

- \* High Efficiency Filter Dust Particles can be Protective Oil.
- \* Activated Carbon Layer to Help Remove Organic Vapor Odor.
- \* Using in Occurrence Place of Dust Particles, Mist, Welding Fume, Deodorization of Organic Solvent / Ozone

**3M<sup>®</sup> Vapor / Gas Cartridges, Respiratory Protection**

- \* For Gas and Vapor Exposures, Snap on the Cartridge. If Additional Particulate Protection is Needed, Choose a Cartridge with Attached Prefilter, or Add a "7711" Prefilter and "774" Holder

**(3) No.3301K-100 : Organic Vapor Cartridge + Available "7711" Filter for Dustproof**

- \* Use with 3200 Half Mask Only or We can Add "7711" Filter and Holder "774" Protects Against Organic Vapors of Low Toxicity.
- \* Using in Printing, Agricultural Spray, Waste Treatment, Painting or Dust Operation

**(4) No.3303K-100 : Organic Vapor & Acid Gas Cartridge + Available "7711" Filter for Dustproof**

- \* Use with 3200 Half Mask Only or We can Add "7711" Filter and Holder "774" Protects Against Organic Vapors & Acid Gas of Low Toxicity.
- \* Using in Occurrence Place of Organic Vapor, Hydrogen Chloride, Sulphur Dioxide, Hydrogen Sulfide, Hydrogen Fluoride

**(5) No.3311K-100 : Organic Vapor with Particular Filter**

- \* Using in Spray Painting, Chemical Spraying and Coating, Fumigation, Degreasing, Cleaning & Maintenance

**(6) No.7711 : Standard Prefilter, Use with "3200" Half Mask Plus "3301K-100" & "3303K-100" Cartridge with 774 Filter Holder**

- \* Using in Dust / Mist, Suitable for Construction, Material Cutting, Blasting, Welding

**(7) No.774 : Prefilter Holder, Use with "3200" Half Mask Plus "3301K-100" & "3303K-100" Cartridge with 7711 Filter.**

- \* Using in Dust / Mist, Suitable for Construction, Material Cutting, Blasting, Welding

**3M.03.5106** (1) Filter Holder, 3700, Using with 3744 Filter

**3M.03.5107** (2) Particular Filter, 3744, Organic Solvent / Ozone Deodorization

**3M.03.5108** (3) Cartridge, 3301k-100, Organic Vapor

**3M.03.5109** (4) , 3303K-100, Organic Vapor / Acid Gas

**3M.03.5110** (5) , 3311K-100, Organic Vapor with Particular Filter

**3M.03.5111** (6) Prefilter, 7711, for 3301K-100 & 3303K-100

**3M.03.5112** (7) Prefilter Holder, 774, Using with 7711 Prefilter

### Vapor / Gas Cartridges,



(3) No.3301K-100

(4) No.3303K-100



(5) No.3311K-100

(6) No.7711



(7) No.774

## Approvals

These products meet the requirements of the European Community Directive 89/686/EEC (Personal Protective Equipment Directive) and are thus CE marked.

Certification under Article 10, EC Type-Examination, has been issued for these products by INSPEC International Limited, 56 Leslie Hough Way, Salford, Greater Manchester M6 6AJ, UK (Notified Body number 0194). Certification under Article 11, EC quality control, has been issued by BSI Product Services (Notified Body number 0086)



## Correct Usage

**When the 3M 3000 Series Respirator is fitted with Gas & Vapour Filters:** it may be used in concentrations of Organic Vapours (b.pt. > 65°C) up to 10 x the Exposure Standard (ES) or 1000ppm whichever value is lower.

**When the 3M 3000 Series respirator is fitted with Particulate Filters:** it may be used in concentrations of particulates up to 10 x ES.

**When the 3M 3000 Series respirator is fitted with Combination Filters:** it may be used in concentrations up to 10 x ES.

## Cleaning and Storage

Cleaning is recommended after each use.

1. Disassemble by removing the filters, head straps and other parts.
  2. Clean and sanitise the mask (excluding filters) using 3M™ Respirator Cleaning Wipes 504 or immersing in warm cleaning solution and scrubbing with a soft brush until clean. Parts may also be cleaned in a suitable domestic washer - contact 3M.
  3. Disinfect respirator by soaking in a solution of quaternary ammonium disinfectant or sodium hypochlorite (30ml household bleach in 7.5l of water) or other disinfectant.
  4. Rinse in fresh, warm water and air-dry in non contaminated atmospheres.
- ⚠ Water temperature should not exceed 50°C.
- ⚠ Do not use cleaning agents that contain lanolin or other oils.
- ⚠ Do not autoclave.

## Use Limitations

1. These respirators do not supply oxygen. Do not use in oxygen deficient areas\*.
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.
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 respirator 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 respirator 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.
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.
10. Only for use by trained, competent personnel.
11. Never modify or alter this product. Replace parts only with original 3M spare part.
12. In case of intended use in explosive atmospheres, contact 3M.

\* 3M definition minimum 19.5% by volume oxygen

## Materials

Part	Material
Face Masks	Thermoplastic Rubber
Head Harness	Polyethylene
Head Strap	Cotton/Polyester/Polyisoprene
Exhalation Valve	Silicone Rubber
Inhalation Valve	Polyisoprene Rubber
3351/3391 Filter body	Polypropylene
3351/3391 Filter element	Activated Carbon
3725/3728 Filter material	Polypropylene



## 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.

After first fitting the filter(s):

1. Place the respirator over the nose and mouth, fitting it comfortably on the bridge of the nose.
2. Pull the head harness over the crown of the head.
3. Take a bottom strap in each hand, place the straps at the back of the neck and hook the straps together.
4. Tighten straps by pulling on ends to achieve a comfortable and secure fit.



## Fit Check

Perform a Negative Pressure Fit Check each time the respirator is donned.

Place palm of hand over the circular opening of the cartridge/grill on the front of the particulate filter holder, inhale gently.

If the face piece collapses slightly a proper fit has been achieved.



⚠ 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 Tech Assist Helpline, 3M Australia 1800 024 464, 3M New Zealand 0800 364 357.**



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