

3M Safety Solutions - OH&ESD Reusable Respirators



Exceptional quality
& unrivalled
comfort

3M™ Half and Full Face respirators stand out in terms of quality and reliability. The choice of the right mask and filter type depends on your particular working environment and individual requirements. As all respirators have to pass strict quality control tests, they provide a consistently high level of performance.

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The Power to Protect Your WorldSM

3M

Selection of 3M™ Reusable Respirators



Select 3M Reusable Respirators

The 3M range of reusable respirators comes in half face and full face options. They both offer respiratory protection, however full face respirators also protect the eyes.

3M FACEPIECE



3M™ 4000 Series Half Masks Maintenance Free Reusable Respirator

- + Designed to be disposed of within one month or when filters are saturated / clogged (whichever occurs first)
- + Built-in filters are integral to the mould
- + Requires no spare parts or filters
- + 'Spray-mist' pre-filter is available to prolong the life of the main particulate filters
- + Textured face seal to prevent slippage and improve comfort
- + Cradle head harness to aid ease of fitting and use
- + Resealable bag for after-use storage helps prolong filter life



3M™ 4279
Organic vapour / inorganic & acid gas / ammonia / particulate respirator
FFABE1P3R D

3M™ 4251
Organic vapour & particulate respirator
FFA1P2R D

3M™ 4255
Organic vapour & particulate respirator
FFA2P3R D

3M™ 4277
Organic vapour / inorganic & acid gas / particulate respirator
FFABE1P3R D



3M™ Reusable Half Masks 3M™ 7500 Series Half Mask

We believe that the 3M 7500 series half mask respirators are the most comfortable half masks on the market

- + Soft, pliable silicone face seal for exceptional comfort and performance
- + Large range of cost effective filters
- + Special thin nose bridge for improved flexibility and reduced pressure
- + Head harness to aid ease of fitting and use
- + Drop down capability for when not in use
- + 3M™ Cool Flow™ Valve - improves user comfort
- + Colour coded for easier identification
3M™ 7501 - small (grey blue)
3M™ 7502 - medium (light blue)
3M™ 7503 - large (dark blue)



Also available

3M™ 6000 Series Half Mask

Economical, low maintenance, simple to handle and extremely lightweight

3M™ 3000 Series Half Mask

Available with two filter options for a limited range of applications



3M™ Reusable Full Face Masks 3M™ 6000 Series Reusable Full Face Mask

- + Lightweight (410g)
- + Available in three sizes
- + Wide field of vision
- + Polycarbonate scratch and impact resistant visor
- + Soft silicone facepiece
- + Four strap suspension - easy to put on and take off
- + Unique 3M bayonet filter attachment system for safe, secure fit



Also available

3M™ 7907S Series Reusable Full Face Mask

- + Robust design
- + Polycarbonate visor
- + Soft silicone facepiece

3M™

Half Masks



3M™ 4000 Series Maintenance-Free Reusable Respirators

The 4000 Series Respirators by 3M are a range of ready-to-use, maintenance-free half masks designed for effective and comfortable protection against a combination of many gases, vapours and particulate hazards found throughout industry. Utilising unique filter technology enables a very low-profile design for undisturbed field of vision to make your worklife more comfortable.

Features and Benefits:

Built In Filters

- + Four versions available, each offering protection against differing hazards throughout industry
- + One piece, maintenance-free construction
- + No filter replacement needed

Exhalation Valve

- + Central position for effective removal of heat and moisture build up within facepiece

Adjustable Head Cradle and Neck Straps

- + Stable secure fit
- + Easy to fasten neck strap

Cost Effective

- + Use until damaged, particulate filters clog or gas filters become saturated. No maintenance records required if disposed of within one month

Convenience

- + Resealable bag provides convenient and clean storage between uses

Accessories

- + 3M™ 400 Overspray-Guard is available to help prolong the life of the main particulate filters

Fits well with

- + Eyewear from 3M
- + Hearing Protection from 3M



3M™ 4000 Series Maintenance-Free Respirators
EN405:2001



3M™ 4000 Series Maintenance Free Respirators available:

3M™ 4279

Organic vapour / inorganic + acid gas / ammonia / particulate respirator
FFABEK1P3R D

3M™ 4251

Organic vapour + particulate respirator
FFA1P2R D

3M™ 4255

Organic vapour + particulate respirator
FFA2P3R D

3M™ 4277

Organic vapour / inorganic + acid gas / particulate respirator
FFABE1P3R D



3M™ 7500 Series Reusable Half Masks

3M 7500 series reusable half masks have set a new standard in comfort. The 3M™ Cool Flow™ Exhalation Valve reduces breathing resistance, helping to minimise heat build-up in the mask and increasing your comfort. Available in three sizes, all masks have the 3M Bayonet Attachment System offering a broad range of twin lightweight filters to protect against gases, vapours and particulates depending on your individual needs and can also be used with 3M™ Supplied-Air Systems.

Features and Benefits:

Protection and Fit

- + Balanced, secure fit
- + Reduced pressure and tension points
- + Drop Down feature for added convenience during breaks
- + Fits well with 3M Head and Eye protection

Comfort

- + Soft silicone material for comfort and durability
- + Easier breathing
- + Less heat and moisture build-up



3M™ 7500 Series Half Mask EN140:1998

- 3M™ 7501 – small (grey blue)
- 3M™ 7502 – medium (light blue)
- 3M™ 7503 – large (dark blue)

Ready-to-Use Respirator Pack – 7500 Series: Medium



- + RTU7523M : Medium 7500 + A2P3 combination filter

3M™ 6000 Series Reusable Half Masks

3M 6000 Series reusable half masks are economical, low-maintenance, simple to handle and extremely lightweight. Available in three sizes.

Features and Benefits:

Low Maintenance

- + More simplicity for easy handling
- + Easy to use

Convenience and Flexibility

- + Flexible system (gas / vapour and/or particulate filters plus Supplied-Air option)



3M™ 6200 Half Mask (medium) EN140:1998

- 3M 6100 – small (light grey)
- 3M 6200 – medium (grey)
- 3M 6300 – large (dark grey)

Ready-to-Use Respirator Packs – 3M 6000 Series reusable half masks



- + RTU6312L : Large 6000 + A1P2 combination filter

3M™ 3000 Series Reusable Half Mask Ready To Use Kit

3M™ 3212 kit contains:

- + 3M™ 3200 Half Mask
- + 3M™ 3391 A1P2R : Organic Vapour and Particulate Filter

Replacement Filters Available:

- + 3M™ 3351 A1 Organic Vapour Filter
- + 3M™ 3391 A1P2R Organic Vapour and Particulate Filter
- + 3M™ 744 Retainer for combination protection
- + 3M™ 7725 Particulate Filter for combination protection (p2)





3M™ 6000 Series Reusable Full Face Masks

3M 6000 series full face masks are simple to handle and comfortable for the wearer. The exhalation port provides increased durability and is easy to keep clean. Available in three sizes, all masks have the 3M™ bayonet connection system enabling connection to a broad range of twin lightweight filters to protect against gases, vapours and particulates depending on your individual needs.

Features and Benefits:

Comfort

- + Soft, non-allergenic elastomeric facepiece
- + Easier breathing
- + Less heat and moisture build-up
- + Extremely lightweight (410g)

Protection

- + Polycarbonate lens, scratch and impact resistant to EN166:2001 B

Convenience and Flexibility

- + Easy to put on and take off
- + Broad field of vision
- + Well balanced
- + Minimised dirt-traps to stay clean



3M™ 6800 Full Face Mask

EN136:1998 (Class 1)

3M™ 6700 – small (light grey)

3M™ 6800 – medium (grey)

3M™ 6900 – large (dark grey)

Fits well with

- + Hearing Protection from 3M

Accessories



3M™ S200 Supplied Air System



3M™ 105 Face Seal Cleaner

3M™ 7907S Series Reusable Full Face Masks

Features and Benefits:

Protection

- + Double face sealing gasket for a good fit
- + Robust design
- + Polycarbonate visor
- + 6 strap suspension for secure fit



3M™ 7907S Reusable Full Face Mask

Approved to EN136 (Class 2)

Fits well with

- + Hearing Protection from 3M



3M™ Filter Selection

Which Filter Should I Use?

Depending on the filter you select, your 3M respirator can protect against particulates, gases and vapours or a combination of the two. To select the most appropriate filter for a particular chemical or hazard, please:

- Refer to the guidance below
- Visit the 3M online Filter Selector at www.3m.co.uk/selectrespirator, click on the link to 3M Respirator Product Selector, select the nature and level of hazardous substance you wish to protect against and a list of suggested filters will be generated.
- Or call the 3M Health & Safety Helpline on **0870 60 800 60 (UK)** or **1 800 320500 (IRL)** for advice and samples

Identify the Hazard

	Hazard	Typical Applications
Particulate	Dust / Mist / Metal Fume / Fibre / Micro-organisms	Wood working / Cutting / Grinding / Sanding / Welding
Gas and Vapour	Organic Vapour / Inorganic Gas / Acid Gas / Ammonia	Metal Etching / Pickling / Chemicals Handling & Mixing / Degreasing / Brush & Roller applied Varnish / Solvent Handling & Usage / Adhesives
Combination of Particulate and Gas and Vapour	Particles and Gas and Vapour Hazards Combined	Paint Spraying / Disinfectant Spraying / Adhesive Spraying

Match filter type to hazards

3M FACEPIECE

PARTICULATE PROTECTION ONLY

3M 2000 Series Filter Range

P2 Particulate Protection
Product Code - 3M 2125

P2 Particulate Protection + Nuisance Level Organic Vapour & Acid Gas
Product Code - 3M 2128

P3 Particulate Protection
Product Code - 3M 2135

P3 Particulate Protection + Nuisance Level Organic Vapour & Acid Gas
Product Code - 3M 2138

- + Extremely lightweight
- + Low breathing resistance
- + Low profile gives unobstructed field of vision

OR

P3 Particulate Protection (filter encapsulated in a lightweight plastic case)
Product Code - 3M 6035

P3 Particulate Protection + Nuisance Level Organic Vapour & Acid Gas
Product Code - 3M 6038

- + Filter in a lightweight plastic case
- + Ideal for wet, dirty or high heat conditions
- + Reduced chance of filter clogging
- + Hazard is contained within filter media protected by plastic case avoiding risk of skin contamination on removal of filter
- + No need to remove during disinfection

GAS & VAPOUR PROTECTION ONLY

3M 6000 Series Filter Range

Product code	A1*	A2*	B1*	E1*	K1*
3M 6051	X				
3M 6054					X
3M 6057	X		X	X	
3M 6059	X		X	X	X
3M 6075	X	+FORMALDEHYDE			
3M 6055		X			

- + Lightweight for optimal weight distribution
- + Unique low profile trapezoidal shape gives unobstructed field of vision

PARTICULATE + GAS & VAPOUR PROTECTION

1.

Check whether any 3M ready-stacked filters are applicable:

P3 Particulate Protection + Mercury Vapour + Organic Vapours A1 Hg P3R
Product Code - 3M 6096

AX P3 Particulate Protection + Low Boiling Point Organic Vapours • For use with full face masks and single shifts only - Product Code - 3M 6098

P3 Particulate Protection + Class 2 organic, inorganic acid gas + ammonia (ABEK2P3 R) • For use with full face masks only - Product Code - 3M 6099

2.

If not, choose your Gas & Vapour filter from here

3.

Then choose a particulate filter from 3M 5000 Series Filter Range

P1 - Product Code - 3M 5911
P2 - Product Code - 3M 5925
P3 - Product Code - 3M 5935

- + Extremely lightweight
- + Low breathing resistance
- + Excellent field of vision

4.

Use a 3M 501 retainer to clamp the two filters together and to the mask

Gas & Vapour Protection explained

EN14387, the European standard for gas filters, classifies gases and vapours into the following groups, each of which are designated a standard colour coding. There are coloured bands on 3M 6000 series filters using this coding to denote the nature of the protection that each product provides.

A - Organic Vapours (boiling point >65°C). Examples of these include xylene and toluene

B - Inorganic Vapours. Examples of these include chlorine and bromine

E - Acid gases. Examples of these include sulphuric acid

K - Ammonia and its derivatives.

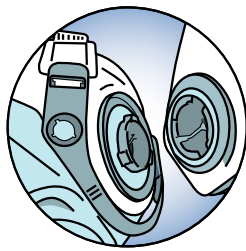
AX - Organic Vapours (boiling point <65°C). Examples of these include acetone and bromoethane

*1 or 2 - 1 after the letter denotes Class 1
 - 2 after the letter denotes Class 2
 Class 2 has higher gas capacity than Class 1

3M™ Filters and Cartridges Range



Hazardous substances are found in many industries and applications. To help you provide the right product solutions, 3M offers a broad range of filters to protect against gases, vapours and particulates.



3M's bayonet-style cartridge connection for easy to fit filters and cartridges

Gas and Vapour Cartridges

3M™ 6000 Series Gas and Vapour Filters

Filter	Protection level	Protection against
6051	A1	organic gases & vapours*
6054	K1	ammonia and its derivatives*
6055	A2	organic vapours*



6057	ABE1	organic vapours, inorganic vapours and acid gases*
6059	ABEK1	organic, inorganic and acid gases, ammonia and its derivatives*
6075	A1+ formaldehyde	organic vapours and formaldehyde*

Filter against gases/vapours and particulate:

6096	A1 HgP3R	organic vapours, mercury vapours and particulate*
6098**	AXP3R	single compound organic vapours (boiling point below 65 °C) and particulate
6099**	ABEK2P3R	organic vapours, inorganic and acid gases, ammonia, derivatives and particulate. 20 x WEL for organic vapours, inorganic, acid gases and ammonia : particulates up to 40 x WEL

* Maximum use concentration 10 x Workplace Exposure Limit (WEL) with half mask or 20 x WEL with full face mask
 ** Only for full face masks.
 The filters of the 6000 Series conform with the European Standards: EN14387 and EN143.

Particulate Filters

3M™ 2000 Series Particulate Filters approved to EN143: 2000



Filter	Protection level	Protection against
2125	P2R	Solid and liquid particles up to 10 x WEL
2128	P2R	Solid and liquid particles up to 10 x WEL plus ozone protection to 10 x WEL and organic vapours/acid gas below WEL
2135	P3R	Solid and liquid particles up to 20 x WEL (half-mask) or 40 x WEL (full face mask)
2138	P3R	Solid and liquid particles protection up to 20 x WEL (half-mask) or 40 x WEL (full face mask) plus ozone to 10 x WEL and organic vapours/acid gas below WEL

3M™ 6035/6038 Series Particulate Filters with EN143: 2000



Filter	Protection level	Protection against
6035	P3R	Solid and liquid particles – in stable plastic case for rough applications up to 20 x WEL (half-mask) or 40 x WEL (full face mask)
6038	P3R	Particulates up to 20 x WEL (half-mask) or 40 x WEL (full face mask). Hydrogen Fluoride gas up to 10 x WEL (half mask) or 30 ppm (full face mask) and relief from nuisance level organic vapours and acid gases below WEL

Combination Filters

3M™ 5000 Series Particulate Filters with EN143: 2000



The 5000 Series Particulate Respirator combines with the 6000 Series Gas Vapour cartridges to provide particulate and gas/vapour protection. **Note:** you need to use the 3M 501 filter retainer to combine the 5000 Series and the 6000 Series

Filter	Protection level	Protection against
for combination with gas filters:		
5911	P1R	solid and liquid particles
5925	P2R	solid and liquid particles
5935	P3R	solid and liquid particles
501		filter retainer

3M™ Reusable Respirators Care & Maintenance

Why is Care & Maintenance so important?

To optimise the effective lifetime of your reusable respirators and avoid the additional cost of replacement, regular maintenance is important

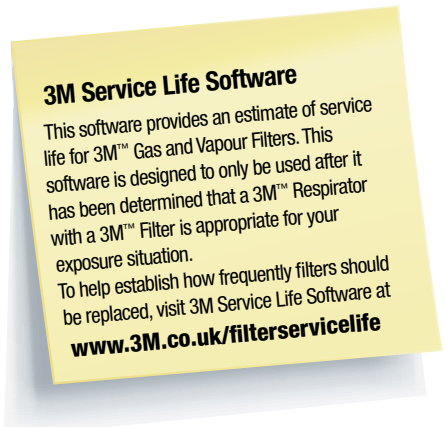
3M Reusable Respirators require regular checks and maintenance to ensure optimum performance and protection for the wearer. In addition to potentially reducing protection levels, poor maintenance can also reduce the effective lifetime of equipment, resulting in the additional cost of replacement. Guidance on the appropriate checks is provided in the instruction booklets with each new item. The Care & Maintenance posters make this information accessible on a day-to-day basis and are a strong visual reminder.



Information Posters

Easy to follow guidance explaining the checks and procedures for the components of each 3M reusable respirator on site. The use of posters allows this key information to become easily accessible to everyone involved with maintaining the equipment.

The posters highlight the main 'Before Use' and 'After Use' checks (as required) for each product. They also provide a breakdown of the various consumables, accessories and repair parts needed.



Record Cards

As part of the UK COSHH regulations relating to reusable respiratory protective equipment, a record of monthly inspection and maintenance must be created. The 3M record card can be used for this.

Please phone the 3M Helpline **0870 60 800 60** [UK] **1 800 320 500** [IRL] to order your free posters and record cards. Alternatively they can be downloaded from the 3M website at www.3M.co.uk/maintenancepack.

Fit Testing

Users of respirators with a tight fitting facepiece should be fit tested as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Respirators with tight fitting facepieces include disposable respirators, half masks and full face masks, including those that form part of a powered or airfed respirator.

3M provide a fit testing service. For more information speak to our Safety Services Coordinator on **0845 60 134 57**. Alternatively visit www.3M.co.uk/fittestrespirator

3M supports the Fit2Fit accreditation scheme for fit testers. Visit www.fit2fit.org



For more information on all our products, call 3M Safety Solutions on 0870 60 800 60 (UK) and 1800 320 500 (Ireland) or visit www.3M.co.uk/ohes



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