

3M Science.
Applied to Life.™

3M Personal Safety Division

European Product Catalogue 2019/2020.



3M is an innovative, global science-based company that is focused on developing products that improve people's lives in a multitude of ways. 3M technologies developed can be found all around you. From in your home and office to in hospitals, doctor and dentist offices, your computer, your car and even in your phone, 3M helps people and business in hundreds of ways every day. Our inventions can be found in the roads, trains, and airplanes.

Our company is centered around a culture of innovation. We foster an atmosphere that provides our employees the freedom to create, the responsibility to deliver and the opportunity to connect ideas and technologies in unexpected ways. From concept to creation, we manufacture our products to exacting quality standards, while looking after our people, our communities and our planet.

Founded in 1902, we have a proud history as a company that strives to be ethical and innovative. From science that works behind the scenes in products you use every day and technology embedded in processes that help industries thrive to tangible products we use every day, the science provided by 3M can be found in many aspects of our lives.

We live our motto every day.
3M. Science. Applied to life.

3M Personal Safety Division

Services

We believe that with a quality product, it is important that the customer also receives quality services. Not only do we provide different varieties of training and education, but we also have many other tools available to our customers.

Fit testing is key

In order to be fully protected, it is essential that PPE fits correctly. We provide fit testing for respirators (and fit testing guidelines online) as well as E-A-Rfit Validation testing for earplugs and earmuffs. We know that everyone is different and in order to get the best protection it is crucial that they know how to correctly fit and wear their personal protective equipment.

3M™ Respiratory Fit Testing System

3M Respiratory Protection offers a wide range of disposable and reusable respirators, as well as Powered and Supplied Air Respiratory Systems. However, even high quality products need a secure fit in order to protect the wearer. One model of respirator may not fit everyone. When choosing a respirator users should be fit tested in accordance with national requirements. For information on fit testing procedures, contact your safety officer or 3M. Even after a user has had a fit test, a fit check should be carried out before each use. A Respiratory Fit Check guide is available on **page 23** of this catalogue.



3M™ E-A-Rfit Dual-Ear Validation System

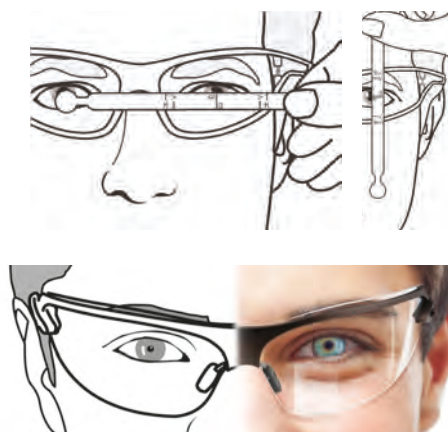
As the leader in hearing protection, 3M offers a complete solution, with dual-ear and earmuff testing capabilities plus a user-friendly interface. The 3M™ E-A-Rfit Dual-Ear Validation System is the fast and easy way to find your employees' PAR, because we know how important it is to make your hearing conservation program fit seamlessly into your operation.

Get results you can trust. The 3M™ E-A-Rfit Dual-Ear Validation System measure the effectiveness of the earplug or earmuff inside the employee's ear providing accurate, quantitative results. Because you can simultaneously test both ears, you have more to focus on education including the importance of fit and protection.



3M™ Eyewear Fit System

When it comes to eyewear, a comfortable, well-fitted workforce is likely to be more effective. Current standards suggest careful consideration should be given to eyewear fit, however there is no specific guidance on how to evaluate eyewear fit on an individual. In view of this, 3M have developed the Eyewear Fit System, a simple 6 step method, designed to help select the best fitting eyewear for an individual.



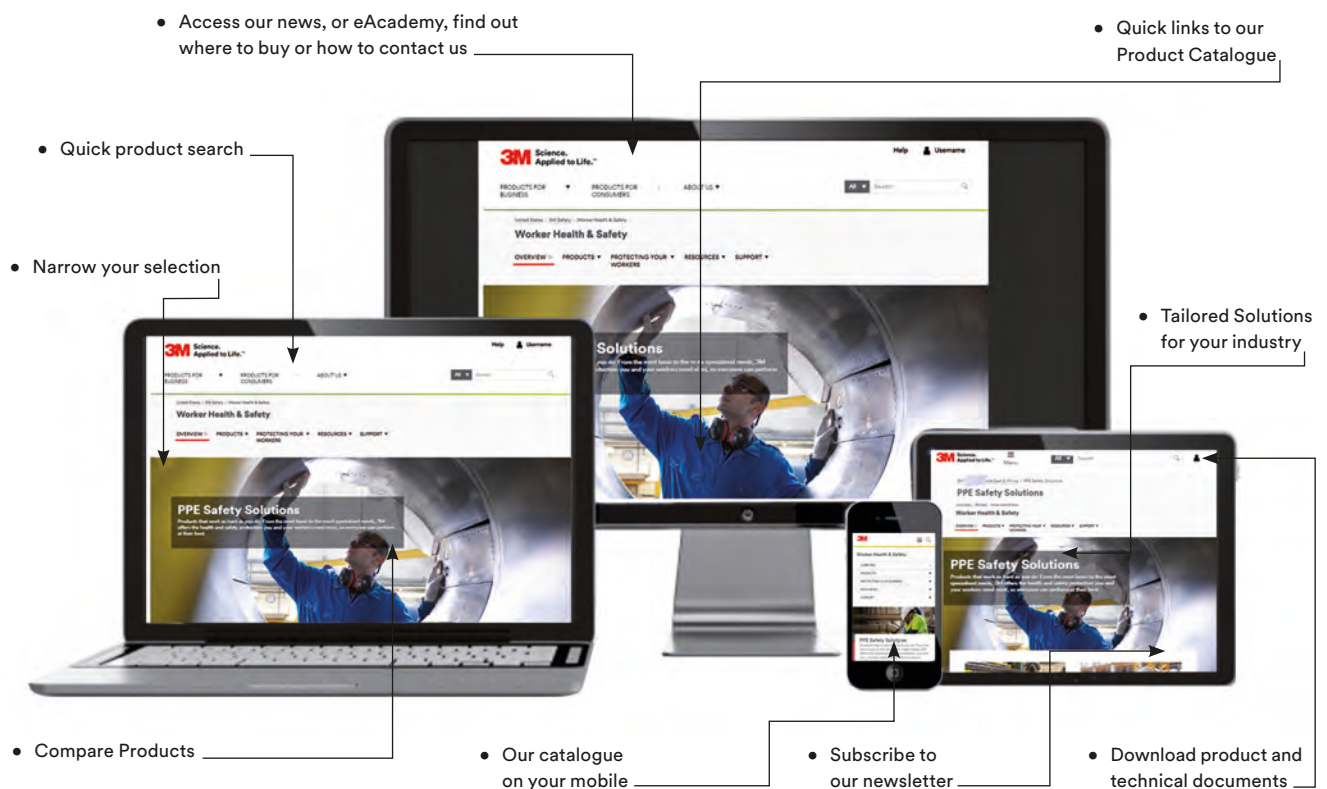
Find out more by contacting your 3M Personal Safety Sales Representative.

3M Personal Safety Division

3M Online

A selection of downloadable and printable documents are available online, such as selection tools, fit test guides, and guidance on the importance of protection. From our website you will be able to access product information, with market area specifications, to help select the right personal protective equipment for the right environment. You will also be able to discover webinars by experts concerning health and safety in the workplace as well as our own eAcademy.

Everything in one place, on your computer, laptop, tablet or mobile.



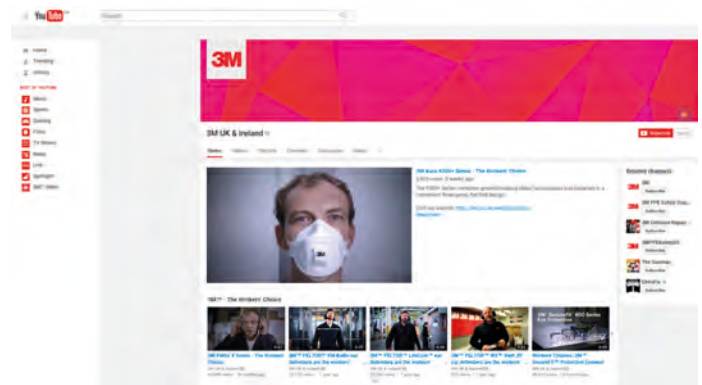
3M PPE Safety Solutions

Subscribe to our channel on YouTube to watch customer testimonials, technical support or product information videos.

Visit www.youtube.com/user/3MPPESafetySolutions

You can also:

Find us on Facebook  or Follow us on Twitter 



3M Personal Safety Division

Science of Safety

3M's new Science of Safety approach can support you with guidance on:



Selection



Training



Fit validation

3M delivers consistent quality around the world helping you select the correct PPE for your workers, helping to ensure your workers are educated on the correct use of PPE and raising awareness of how important fit and comfort are to the health and wellbeing of your workforce.

For more information visit www.3M.eu/SoS

40%




of employees incorrectly select or use PPE

Source: HSE Research Report RR720 'Real world use and performance of hearing protection'

H&S officials

and employers have a duty to provide the correct safety equipment and training.

Maintaining consistency in this arena can prove difficult, hindering the health and safety process.



Many companies don't have the ability to test whether PPE fits the employee properly.



Employees are at risk of damaging their health long term which may lead to an increase in liability for employers.

3M Personal Safety Division



Why partner with 3M for your health and safety?

3M can deliver consistent quality around the world

Our industry-leading approach embraces best practice on a global level



Selection



Training

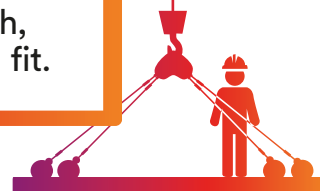


Fit validation

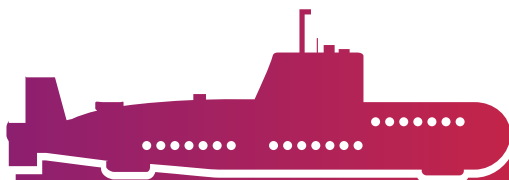


3M PPE equipment

industry-leading breadth and depth, helping to optimise protection and fit.



3M can give local support and advice wherever you do business



www.3M.eu/SoS

#3MScienceOfSafety

3M Personal Safety Division

Productivity

We don't only aim to improve the safety of our customers, we also want to help them keep costs down. Our products are designed to last and to provide more efficient protection, but they can bring efficiencies in other ways.

PELTOR™

As many supervisors know, efficient on-site communication can save a lot of time throughout the duration of a project. Recently, a study by Lund University Faculty of Engineering in Sweden showed that downtime and interruptions were reduced by 19% when two-way radio communication headsets were used. A single construction worker gained 380 minutes of productive time per week.

The study was conducted by Victoria Joang and Aidin Sakikovic, two researchers from Lund's graduate program in civil engineering. They compared two work weeks on one of Skanska's major water main projects in Sweden, analysing similar work activities during each week. In the first week, the workers did not use two-way radios. In the second week, they were equipped with 3M™ PELTOR™ WS™ LiteCom Headsets, which have a built-in two-way radio and a Bluetooth® wireless technology mobile phone connection.

Detailed follow-up interviews showed that the big advantage was being able to quickly relay and receive messages on the job, especially on large construction sites where eye contact is not possible. Improved team spirit was another reported benefit.

Speedglas™

Another example of efficiency can be seen in our Welding portfolio, where, by using a 3M™ Speedglas™ Welding Helmet with auto-darkening filters, companies can save up to 1€ per hour.

We have created a Return on Investment calculator for the welding portfolio, where you can input all your numbers to see how much your company would save by using these auto-darkening filters. From this we have calculated that a company with low salary costs who have previously not used an auto-darkening filter, would be able to save 75 euro cents per hour per worker by using almost any auto-darkening filter. So if they had 100 workers, all wearing an auto-darkening filter, 5 days a week, for 8 hours they would make a weekly company saving of 3000 euros.





Respiratory protection

3M™ Respiratory Protection Equipment

Types of Protection Equipment from 3M

3M offers you a wide range of disposable, reusable, powered and supplied air respirators for protection against gases, vapours and particulates allowing you to choose the level and type of protection, comfort, style and maintenance requirements you need to work safely, comfortably and effectively.

There are three main types of RPE available from 3M on the following pages:

Filtering Facepiece Respirators

- Ideal for most industries and applications where wearers require particulate protection e.g. dusts and mists
- A choice of cup-shape or flat-fold, valved or unvalved and also the option to protect against ozone and nuisance levels of organic vapours and acid gases
- Available in two types to satisfy single shift use (NR) and reusable (R) requirements
- Lightweight and maintenance free
- Comfortable, convenient and easy to use



Reusable Half and Full Face Respirators

- Offer protection against particulates, gases and vapours and combinations of the two
- These respirators have integrated or replaceable filters and parts. They may be cleaned, stored and reused provided they are in good condition
- Full face respirators also offer integrated eye and face protection
- Many models are fully maintainable



Powered Air & Supplied Air Systems

- Offer protection against dusts, mists, fumes, gases, vapours and combination hazards e.g. paint spray
- Can offer integrated eye, face, head, neck and hearing protection in one system avoiding incompatibility issues between items of PPE
- Modular system allows you to mix and match parts as your environment or application changes giving you the ultimate in flexibility and ease of use
- No increase in breathing resistance means more comfortable and longer wear time
- Usable by a wide range of users regardless of facial characteristics; shape, size etc.



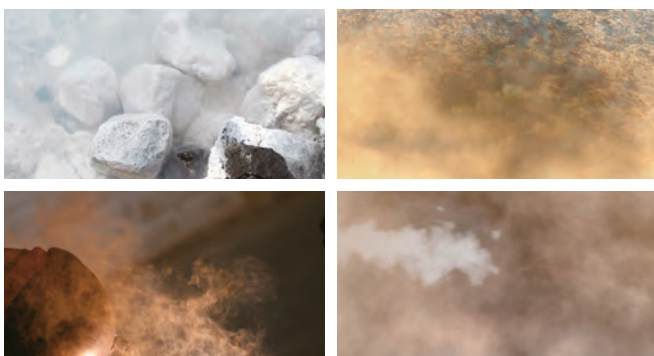
3M™ Respiratory Protection Equipment

The 4-Step Method

Selecting and specifying the appropriate respiratory protective equipment may appear daunting with so many factors to consider and so many options to choose from. With our simple 4-step method it's easy to choose the correct level of protection and comfort required to optimise respiratory protection:

1. Identify the hazards

Respiratory: dust, metal fume, gas, vapour etc.
Other neck-up: head, eye, face, hearing etc.



2. Assess the risk

Assess the hazard levels against safety standards and consider other protection e.g. skin, eye, face, head and body



3M™ Organic Vapour Monitor Badges measure personal exposure to hazards

3. Select the right respirator

Disposable, reusable, half mask, full face, powered air, supplied air and the right filter if appropriate



4. Train in fitting and use

Make sure you know how to use and maintain your RPE to ensure effective respiratory protection. 3M sales and technical professionals can help you to define your training needs and can provide training and on-site consultations on all aspects of respiratory protection tailored to your individual needs. You'll also find easy to use training on our website:

www.3M.eu/PPESafety







Reusable Respirators

For prolonged periods of use, 3M™ Reusable Respirators offer exceptional value and quality, all combine comfort with ease of use. 3M™ Respirators have to pass strict quality control tests and provide a consistently high level of safety.

The choice of the right mask and filter type depends on your particular working environment and individual requirements. 3M can assist you to choose the protection that helps you achieve optimum results.

3M™ Reusable Respirators

The 4-Step Method

1. Identify the Hazards

Application	Hazard	Typical Protection
Painting, Spraying, Varnishing, Coating	Solvent-Based Paint**	A2P3 R
	Anti-Fouling Paint Spraying / Grinding	A2P3 R
	Water Soluble Paint	A1P2 R
	Solvents, Resins, Synthetic Resins**	A2P3 R
	Latex-Paint, Residual Solvents	A2P3 R
	Wood Preservatives	A1P2 R
Maintenance	Disinfection, Cleaning*	ABEK1P2 R
Decoration	Spray-On Glue, Foam, Varnish, Adhesive	A1P2 R
Waste Removal	Bacteria, Spores, Odours	A1P2 R
Agriculture	Pesticides, Insecticides	ABEK1P2 R
Wood Treatment	Bonding, Spray-On Glue	A2P3 R
Construction, Grinding, Cutting, Drilling	Tarring	A2P3 R
	Sealing	A1P2 R
	Spray Foam Insulation	A1P2 R
Coating	Organic Solvent/with boiling point less than 65 C	AXP3 R
	Ammonia Based Paint Remover	ABEK
	Polyurethane Coating**	ABEK1P3 R
	Solvent Based Varnish	A2
	Water Based Varnish	A1
Bonding	Solvent containing Adhesives	A1
Handling	Sulphur Dioxide	ABE
	Hydrochloric Acid	ABE
	Liquid Manure	ABEK
	Ammonia	K
	Formaldehyde	A1 + Form
	Hazardous goods storage/transport	ABEK1P3 R

Warning:

This guide is only an outline. It should not be used as the only means for selecting a respirator. Details regarding performance and limitations are set out on the respirator package and user instructions. Before using any of these respirators, the wearer must read and understand the user instructions for each product. Specific country legislation must be observed.

* excluding Formaldehyde

** for occurrence of Isocyanates, please contact the 3M Customer Helpline +44 (0) 870 60 800 60 or your local 3M office

2. Assess the Risk

Nominal Protection Factors (NPF) for reusable half and full face masks*

Filter Classification	NPF* with 3M Half Mask	NPF* with 3M Full Face Mask
P1	4	5
P2	12	16
P3	48	1000
Class 1 Gas and Vapour filters	50 or 1000ppm (whichever is lower)	2000 or 1000ppm (whichever is lower)
Class 2 Gas and Vapour filters	50 or 5000ppm (whichever is lower)	2000 or 5000ppm (whichever is lower)

AX-Filter for low boiling point (organic composition with a low boiling point under 65 °C). AX-Filter should only be fitted to 3M™ Full Face masks. AX filters may only be used for a single shift.

A1 and A2 Filter for organic vapour with a boiling point above 65 °C.

* Country APF should be used where available.

Nominal Protection Factor (NPF) - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

3M™ Reusable Respirators

3.2 Select the right filter and respirator

How do I select my filter?

**Consider the hazard**

Are they particles or particles, gases and vapours?

**Contaminant**

How much contaminant is in the air?

**Comfort and Convenience**

Filter protection level, weight, balance, field of view, compatibility with other equipment such as face shields.

**Mask type**

Is it a full face or half face mask?

**Compatibility**

What other Personal Protective Equipment is required e.g. welding shield?

**Environment**

Will the filter be caked in dust?

3M can help with free Select and Service Life Software.

3M™ Select and Service Life Software www.3M.com/SLS

How do I select my respirator?

3M™ offers a wide range of reusable respirators designed for user requirements. Respirators are compatible with one of the following filter platforms:

- 3M™ Bayonet Filter Series: Convenience and Versatility
- 3M™ Secure Click™ Series: Reliability and Comfort
- 3M™ Pro2000 Series: Heavy Duty and Low Maintenance

4. Train in fitting and use

Make sure you know how to use and maintain your Respiratory Protective Equipment to ensure effective respiratory protection. 3M sales and technical professionals can help you to define your training needs and can provide training and on-site consultations on all aspects of respiratory protection tailored to your individual needs. You'll also find easy to use training on our website: www.3M.eu/occsafety

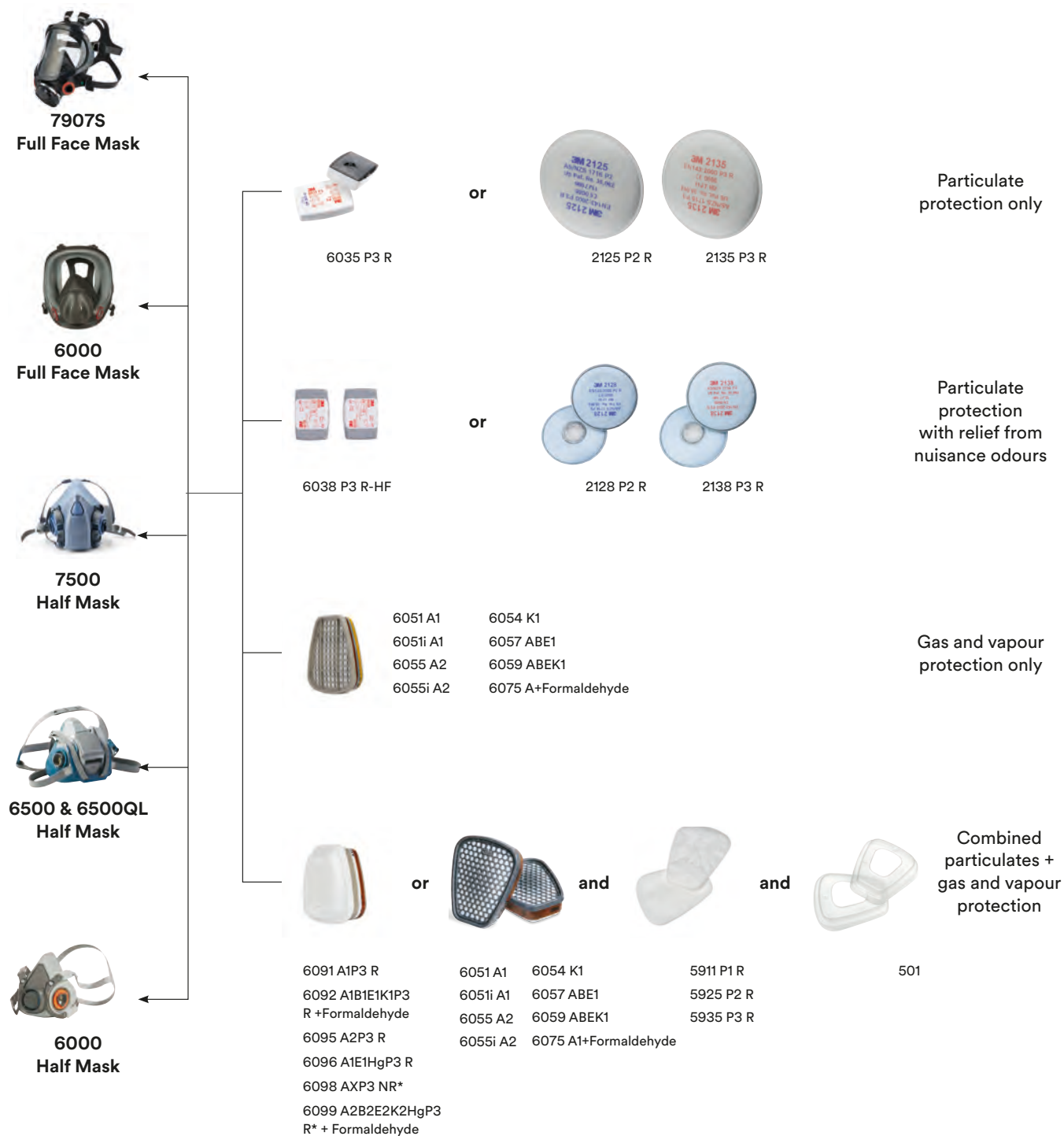
Reusable respirator care and maintenance

3M™ Reusable Respiratory Equipment requires 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 the equipment, resulting in the additional cost of replacement. Guidance on the appropriate checks is provided in the instruction booklets with each new item.

3M™ Reusable Respirators

3M™ Bayonet Filter Series

3M™ Reusable Respirators and Filters at a glance



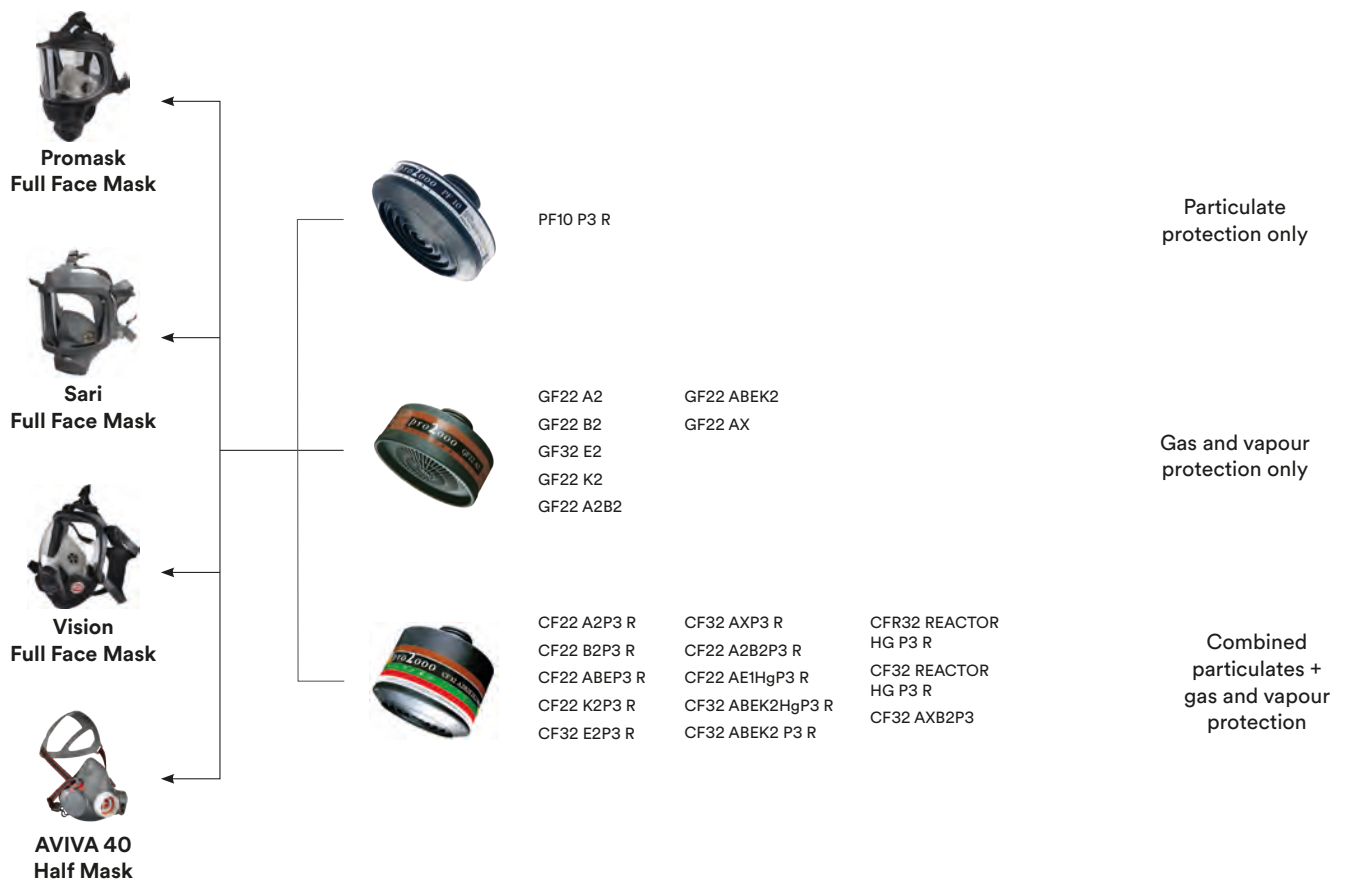
*full face only

3M™ Reusable Respirators

3M™ Secure Click™ Filter Series



3M™ Pro2000 Series Filter Series



3M™ Reusable Respirators

Respirator Select and Service Life Software

3M have designed state of the art software to help make the selection of 3M™ Respirators and filters easier. The user-friendly software also helps users estimate the service life of 3M™ Gas and Vapour Filters and helps determine how to use the NEW 3M™ 6051i and 6055i filters that feature the 3M™ End of Service Life Indicator (ESLI).

The 3M™ Select and Service Life Software simplifies and speeds up the selection of 3M™ Respirators through a user-friendly interface that allows the user to enter contaminants and their concentrations.

With the ability to analyse more than 700 different chemicals, and mixtures of chemicals, the software provides a series of prompts to the user to select an appropriate respirator. A record is also provided of the choices made by the user.

Respiratory filters have a limited service life, this is the estimated period of time before breakthrough of a chemical for a specific filter. Respiratory protection standards and/or good practice often require users of chemical filter respirators to implement a filter change schedule based on "objective information or data" to help prevent worker overexposure.

The 3M™ Select and Service Life Software offers the additional capability of estimating the frequency of replacement of 3M™ Gas and Vapour Filters. The software calculates service life based on workplace conditions such as contaminant concentration. This information can then be used to establish a filter change schedule.

ESLI Software



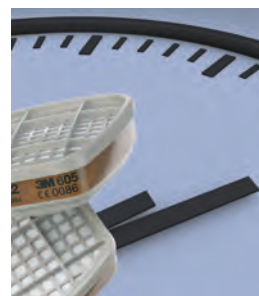
The 3M™ Gas & Vapour Service Life Indicator Filters 6051i and 6055i feature an End of Service Life Indicator (ESLI). The ESLI software can help you determine if you can rely on the ESLI as your primary filter change plan.

3M™ Select Software



3M™ Select Software is designed to help you choose the appropriate 3M™ Respirator for your work environment.

3M™ Service Life Software



The Service Life calculation is designed to help you estimate the service life of selected 3M™ Gas and Vapour Filters.

**To use the software simply visit:
www.3M.com/SLS**





3M™ Reusable Respirators


3M™ Bayonet Filter Series

Simply twist and click to connect your preferred combination of 3M filters and bayonet facepieces with the easy to use 3M™ Bayonet Filter Attachment System (excluding 6098 and 6099 which need to be used with 3M full face respirators). 3M Bayonet Filters provide protection against a range of particulates, gases and vapours, or a combination of hazards.


3M™ Particulate Filters

Particulate filters protect only against particles i.e. dust, mists, aerosols, smoke, mould, bacteria and so on. Some of our filters also provide relief from nuisance odours.


3M™ Particulate Filters 6035/6038 Series

	Filter	Protection level	Protection against
	6035	P3 R	Solid and liquid particles – in solid plastic case for rough application
	6038	P3 R	Solid and liquid particles. Hydrogen Fluoride gas up to 30ppm and relief from nuisance level organic vapours and acid gases below nominal protection factor in solid plastic case for tough applications
	502*		Filter retainer

3M™ Particulate Filters 5000 Series

	Filter	Protection level	Protection against
	5911*	P1 R	Solid and liquid particles
	5925*	P2 R	Solid and liquid particles
	5935*	P3 R	Solid and liquid particles
	501		Filter retainer
	603		Filter retainer

3M™ Particulate Filters 2000 Series


	Filter	Protection level	Protection against
	2125	P2 R	Solid and liquid particles
	2128	P2 R	Solid and liquid particles, ozone protection up to 10 x nominal protection factor, organic vapours/ acid gas
	2135	P3 R	Solid and liquid particles
	2138	P3 R	Solid and liquid particles, ozone protection up to 10 x nominal protection factor, organic vapours/acid gas
	502*		Filter retainer

3M™ Reusable Respirators

3M™ Combination Filters

Protect against both particulates and gases. Different combinations of particulate and gas and vapour filters are used depending on the gases or vapours present in the air


3M™ Gas, Vapour and Particulate Filters 6000 Series

	Filter	Protection level	Protection against
	6091	A1P3 R	Organic gases and vapours bp> 65°C and particulates
	6092	A1B1E1K1P3 R + Formaldehyde	Organic vapours bp>65°C, inorganic vapours, acid gases, ammonia and its derivatives, formaldehyde up to 10ppm and particulates
	6095	A2P3 R	Organic gases and vapours bp>65°C and particulates
	6096	A1E1HgP3 R	Organic vapours bp>65°C, acid gases, mercury and particulates
	6098*	AXP3 NR	Organic vapours bp<65°C and particulates
	6099*	A2B2E2K2HgP3 R + formaldehyde	Organic vapours bp>65°C, inorganic vapours, acid gases, ammonia and its derivatives, mercury, formaldehyde up to 10ppm and particulates


3M™ Gas and Vapour Filters

Gas and vapour filters protect only against gases and vapours. These can be combined with some particulate filters if needed.

3M™ Gas and Vapour Filters with 3M™ Service Life Indicator 6000i Series

	Filter	Protection level	Protection against
	6051i	A1	Organic gases and vapours bp>65°C
	6055i	A2	Organic gases and vapours bp>65°C

3M™ Gas and Vapour Filters 6000 Series

	Filter	Protection level	Protection against
	6051	A1	Organic gases and vapours bp>65°C
	6054	K1	Ammonia and derivatives
	6055	A2	Organic vapours bp>65°C
	6057	ABE1	Organic vapours bp>65°C, inorganic vapours and acid gases
	6059	ABEK1a	Organic vapours bp>65°C, inorganic vapours, acid gases, ammonia and its derivatives
	6075	A1+ formaldehyde	Organic vapours bp>65°C and formaldehyde up to 10ppm

* Please see the 6051i and 6055i User Instructions or the 3M™ Select and Service Life Software to determine if these filters are appropriate as a primary change out method for your work environment. It is important to change your gas and vapour filters at the right time; using the filter for longer can lead to break-through of hazard into the mask. Service life is the terms used to describe how long a set of filters can be used before they need to be changed. The ESLI is only appropriate as a primary change out method for certain organic vapours and exposure concentrations, must also be less than the workplace exposure limit (WEL).

3M™ Reusable Respirators


3M™ Pro2000 Filter Series

Align and screw your Pro2000 DIN Thread filters to compatible 3M half masks and full facepieces (excluding compatible full face respirators). 3M Pro2000 Filters provide protection against a range of particulates, gases and vapours, or a combination of hazards.

3M™ Gas and Vapour Filters

Gas and vapour filters protect only against gases and vapours. These can be combined with some particulate filters if needed.


3M™ Gas & Vapour Filters Pro2000 Series

	Filter	Protection level	Protection against
	GF22 A2	A2	Gases and vapours from organic compounds with a boiling point above 65°C
	GF22 B2	B2	Inorganic gases and vapours, e.g. chlorine, hydrogen sulphide, hydrogen cyanide
	GF32 E2	E2	Acid gases and vapours, e.g. sulphur dioxide
	GF22 K2	K2	Ammonia and organic ammonia derivatives
	GF22 A2B2	A2B2	Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours, e.g. chlorine, hydrogen sulphide, hydrogen cyanide
	GF32 ABEK2	ABEK2	Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours, e.g. chlorine, hydrogen sulphide, hydrogen cyanide. Acid gases and vapours, e.g. sulphur dioxide. Ammonia and organic ammonia derivatives.
	GF32 AX	AX	Gases and vapours from organic compounds with a boiling point less than, or equal to, 65°C. Single Use Only

3M™ Particulate Filters

Particulate filters protect only against particles i.e. dust, mists, aerosols, smoke, mould, bacteria and so on.

3M™ Particulate Filters Pro2000 Series


Filter	Filter	Protection level	Protection against
	PF10 P3	P3 R	Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes

3M™ Reusable Respirators

3M™ Combination Filters

Protect against both particulates and gases. Different combinations of particulate and gas and vapour filters are used depending on the gases or vapours present in the air.

3M™ Gas, Vapour and Particulate Filters Pro2000 Series

Filter	Protection level	Protection against
	CF22 A2P3	A2P3 R Gases and vapours from organic compounds with a boiling point above 65°C. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF22 B2P3	B2P3 R Inorganic gases and vapours. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF22 A2B2E1P3	A2B2E1P3 R Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours. Acid gases and vapours. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF22 K2P3	K2P3 R Ammonia and organic ammonia derivatives. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF32 E2P3	E2P3 R Acid gases and vapours. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF32 AXP3	AXP3 R Gases and vapours from organic compounds with a boiling point less than, or equal to, 65°C. (AX Filter single use only). Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF22 A2B2P3	A2B2P3 R Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF22 AE1HgP3	AE1HgP3 R Gases and vapours from organic compounds with a boiling point above 65°C. Acid gases and vapours. Mercury (maximum usage time of Hg filter is 50 hours). Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF32 ABEK2HGP3 (with cap cover)	ABEK2HgP3 R Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours. Acid gases and vapours. Ammonia and organic ammonia derivatives. Mercury (maximum usage time of Hg filter is 50 hours). Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF32 ABEK2P3	ABEK2P3 R Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours. Acid gases and vapours. Ammonia and organic ammonia derivatives. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CFR32 REACTOR-HGP3 (reduced opening)	REACTOR HGP3 R Radioactive agents and Mercury (maximum usage time of Hg filter is 50 hours). Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CFR32 ABEK2P3 (reduced opening and foil bag)	ABEK2P3 R Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours. Acid gases and vapours. Ammonia and organic ammonia derivatives. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF32 REACTOR-HGP3	REACTOR HGP3 R Radioactive agents and Mercury (maximum usage time of Hg filter is 50 hours). Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF32 AXB2P3	AXB2P3 R Gases and vapours from organic compounds with a boiling point less than, or equal to, 65°C. Inorganic gases and vapours. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes
	CF32 ABEK2P3	ABEK2P3 R Gases and vapours from organic compounds with a boiling point above 65°C. Inorganic gases and vapours. Acid gases and vapours. Ammonia and organic ammonia derivatives. Solid and liquid particles, toxic and radioactive particles, micro-organisms (e.g. bacteria and viruses) and enzymes

3M™ Reusable Respirators


3M™ Secure Click Filter Range

Work with the confidence, provided by the all new Secure Click connection, that filters/cartridges are installed properly. Simply align the connections and push to hear a click. Experience greater breathability and comfort provided by the world's first quad-flow gas and vapour filter/combination filter system

3M™ Combination Filters

Protect against both particulates and gases. Different combinations of particulate and gas and vapour filters are used depending on the gases or vapours present in the air


3M™ Secure Click Gas, Vapour and Particulate Filters

	Filter	Protection level	Protection against
	D8095	A2P3 R	Organic gases and vapours bp>65°C and Particulates
	D8094	ABEKP3 R	

3M™ Gas and Vapour Filters

Gas and vapour filters protect only against gases and vapours. These can be combined with some particulate filters if needed.


3M™ Secure Click Gas and Vapour Filters

	Filter	Protection level	Protection against
	D8051	A1	Organic gases and vapours bp>65°C
	D8055	A2	Organic vapours bp>65°C
	D8059	ABEK1a	Organic vapours bp>65°C, inorganic vapours, acid gases, ammonia and its derivatives

3M™ Particulate Filters

Particulate filters protect only against particles i.e. dust, mists, aerosols, smoke, mould, bacteria and so on. Some of our filters also provide relief from nuisance odours.

3M™ Secure Click Particulate Filters

	Filter	Protection level	Protection against
	D3125	P2 R	Solid and liquid particles
	D3128	P2 R	Solid and liquid particles, ozone protection up to 10 x nominal protection factor, organic vapours/acid gas
	D3135	P3 R	Solid and liquid particles
	D3138	P3 R	Solid and liquid particles, ozone protection up to 10 x nominal protection factor, organic vapours/acid gas
	D7915	P1 R	Solid and liquid particles
	D7925	P2 R	Solid and liquid particles
	D7935	P3 R	Solid and liquid particles
	D701		Filter Retainer

3M™ Reusable Respirators

3M™ Secure Click™ Half Mask Reusable Respirator HF-800 Series

Designed with smart and intuitive features, the 3M™ Secure Click™ Half Mask Reusable Respirator HF-800 Series helps protect workers from particulates and a wide variety of gases and vapours when used with approved 3M™ Secure Click™ filters and cartridges.

Greater breathability and comfort is provided by the world's first quad flow cartridge system.

Features and Benefits:

Speaking Diaphragm

- Designed to help provide easier communication while working

Unique Filter and Cartridge Connection

- Align the connections and push to hear a click
- Two dual-flow cartridges on each respirator combine four airflow paths for easier breathing
- Swept back filter design for compatibility with certain welding and grinding shields

Exhalation Valve

- Helps direct exhaled breath and moisture downward

Push Button Seal Check

- Provides increased worker confidence that the respirator is being worn properly

Easy-Adjust Buckle

- Simple two-way adjustability: pull straps to tighten, squeeze wings to loosen

Patented Silicone Flex-Joint Faceseal

- Provides a softer feel for more comfort on the wearer's face



Hear it:



Check it:



Feel it:



Say it:

Compatible with:



3M™ S-200+ Supplied Air System
3M Protective Eyewear
3M Hearing Protection

Work with the confidence, provided by the all new Secure Click™ connection, that filters/cartridges are installed properly. Simply align the connections and push to hear a click.

Increase worker confidence that the respirator is being worn properly with the easy, one-touch, user seal check.

Experience the greater breathability and comfort provided by the world's first quad-flow gas and vapour filter/combination filter system.

Utilise the speaking diaphragm designed to help provide easier communication while working.

3M™ Reusable Respirators

3M™ Maintenance Free Reusable Respirators 4000+ Series

Engineered for improved breathing ease, this evolution of 3M's most popular maintenance-free reusable half mask is convenient to use, reassuringly reliable and now offers measurable improvements in comfort. With no parts assembly or maintenance required this simple, lightweight, well balanced respirator offers reliable respiratory protection against a range of gases, vapours and particulates typically found in a variety of industries. A unique bonded carbon technology allows the respirator to sit close to the face and fit well under many other types of protective equipment, providing an undisturbed field of vision and a more comfortable worklife.

Features and Benefits:

Comfortable, Effective Protection

- New enhanced exhalation valve assembly reduces breathing resistance by over 30%
- Low profile design for better peripheral vision
- Lightweight, well balanced design
- Soft, non-allergenic material with textured face seal
- Proven to consistently exceed EU standard requirements for breathing ease

Convenience

- Ready-to-use, maintenance-free construction with integrated filter
- Four versions available, each offering protection against differing hazards throughout industry
- Resealable bag provides convenient and clean storage between uses

Cooler Wear

- Central position of the exhalation valve for effective removal of heat and moisture build up within facepiece

Adjustability

- Helps to achieve a stable secure fit
- Easy to fasten neck strap

Accessories

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



	Classification	Protection	
3M™ Reusable Respirator 4251+	EN 405:2001+A1:2009	Organic Vapour + Particulates	FFA1P2 R D
3M™ Reusable Respirators 4255+	EN 405:2001+A1:2009	Organic Vapour + Particulates	FFA2P3 R D
3M™ Reusable Respirator 4277+	EN 405:2001+A1:2009	Organic Vapour / Inorganic Vapours + Acid Gas / Particulates	FFABE1P3 R D
3M™ Reusable Respirator 4279+	EN 405:2001+A1:2009	Organic Vapour / Inorganic Vapours + Acid Gas / Ammonia / Particulates	FFABEK1P3 R D

3M™ Reusable Respirators

3M™ Reusable Half Masks 7500 Series

3M™ Reusable Half Face Mask 7503 has a bayonet style twin filter design that fits a broad range of lightweight filters. Our 7500 Series reusable mask has a 3M™ Cool Flow™ Valve, a soft sealing surface for comfort, and a unique head harness with an optional drop down strap design.

Features and benefits:

Head harness

- Balanced, secure fit
- Reduced pressure and tension points

Facepiece

- Available in 3 sizes, distinguished by colour
- Drop Down feature for added convenience during breaks
- Soft silicone face piece material for comfort and durability
- Thin nose bridge area for more comfort
- Low weight of 136g

3M™ CoolFlow™ Exhalation Valve

- Less exhalation resistance and easier breathing
- Effective removal of heat build up provides a cooler and more comfortable wear
- Removes exhaled air to minimise the risk of fogging eyewear

Low Profile Design

- Minimises interference with field of view
- Minimises dirt traps
- Sleek look and feel

3M™ Bayonet Filter Connection System

- Twin filter design provides lower breathing resistance, even weight distribution and balanced fit
- Optical marking of attachment point
- Flexible filter system for gas, vapour and particulate filters
- Optional supplied air connection.

Ready to Use Respirator Kits

- Available in convenient Ready to Use Kits, containing facepiece, filters, filter retainer



	Classification	Size	Colour
3M™ Half Mask 7501	EN140:1998	Small	Grey Blue
3M™ Half Mask 7502	EN140:1998	Medium	Light Blue
3M™ Half Mask 7503	EN140:1998	Large	Dark Blue

Compatible with:

- 3M S-200+ Supplied Air System
- 3M Protective Eyewear
- 3M Hearing Protection
- 3M Bayonet Filter Connection System

3M™ Reusable Half Masks 6500 Series

The 3M™ Reusable Half Masks 6500 Series have been designed with tough and dirty work environments in mind. Stay productive and protected – the 6500 Series delivers durability and stability with a firm, lightly textured silicone face seal and strong body construction.

Features and benefits:

Overmoulded, Low-Profile Design

- Simplified cleaning and maintenance with minimal parts and crevices
- Advanced half mask design for a wide field of view

Adjustable Head Harness Assembly

- Optimum fit and comfort with three-size adjustable head cradle and durable harness straps

Silicone Face Seal

- Provides comfort and stability with a soft but firm face seal
- Extended product life due to resilient silicone material
- Keeps its shape in high-heat environments

3M™ Bayonet Connection

- Flexible bayonet system for connection to a wide range of 3M™ gas, vapour and particulate filters

Valve Cover Design

- Directs exhaled breath and moisture downward
- Easy positive pressure seal check

3M™ Cool Flow™ Exhalation Valve

- Enhanced comfort by reducing heat and moisture
- Less exhalation resistance makes breathing easier

Quick Latch (QL) - Drop Down Mechanism*

- Easy on and off as you move in and out of contaminated areas
- No need to remove your safety helmet or face shield when lowering or raising your respirator



	Classification	Size	Quick Latch Mechanism?
3M™ Half Mask 6501QL	EN140:1998	Small	Yes
3M™ Half Mask 6502QL	EN140:1998	Medium	Yes
3M™ Half Mask 6503QL	EN140:1998	Large	Yes
3M™ Half Mask 6501	EN140:1998	Small	No
3M™ Half Mask 6502	EN140:1998	Medium	No
3M™ Half Mask 6503	EN140:1998	Large	No

Compatible with:

- 3M S-200+ Supplied Air System
- 3M Protective Eyewear
- 3M Hearing Protection
- 3M Bayonet Filter Connection System

3M™ Reusable Respirators

3M™ Reusable Half Masks 6000 Series

The 3M™ Reusable Half Masks 6000 Series are economical, low-maintenance, simple to handle and lightweight. Available in three sizes, all masks have the 3M™ Bayonet Connection System allowing connection to a broad range of twin filters to protect against gases, vapours and particulates depending on your individual needs.

Features and benefits:

Head harness

- Cradle suspension for comfortable fit
- Easy to fasten neck strap

Facepiece

- Three colour coded sizes for easier identification
- Lightweight elastomeric material for comfort during long periods of work
- Ultra-low weight of 82g

Low Profile Design

- Minimises interference with field of view

3M™ Bayonet Filter Connection System

- Twin filter design provides lower breathing resistance
- Better weight distribution and more balanced fit
- Improved peripheral vision
- Safe and secure fit
- Optical marking of attachment point
- Flexible filter system for gas, vapour and particulate filters
- Optional supplied air connection.

Ready to Use Respirator Kits

- Available in convenient Ready to Use Kits, containing facepiece, filters, filter retainer



	Classification	Size	Colour
3M™ Half Mask 6100	EN140:1998	Small	Light Grey
3M™ Half Mask 6200	EN140:1998	Medium	Grey
3M™ Half Mask 6300	EN140:1998	Large	Dark Grey

Compatible with:

- 3M S-200+ Supplied Air System
- 3M Protective Eyewear
- 3M Hearing Protection
- 3M Bayonet Filter Connection System

3M™ Reusable Half Masks AVIVA 40

AVIVA 40 Half Mask has been designed with user comfort and protection in mind. With a wide range of compatible filters, AVIVA 40 is suitable for protecting against a number of respirable hazards. AVIVA 40 Half Mask utilises the 3M™ Pro2000 Series filter attachment system.

Features and benefits:

Facepiece

- Seal check button - when pressed during exhaling, the mask inflates slightly showing a good seal has been achieved
- Standby positioning enables users to temporarily remove the mask without requiring the removal of headwear
- Nose pinch - allows for integration with eyewear
- Made from Thermoplastic Elastomer (TPE).
- Integrated voice panel, for enhanced voice intelligibility
- Available in 3 sizes: Designed to suit a number of face shapes.

User Comfort

- Reflex seal: Contours to the face, flexing with wearer movement. Designed to aid wearer comfort whilst sealing to the face.
- Comfortable, durable, low profile head cradle

Ready to Go Protection

- Also available as a Ready to Use Kit:
- Consisting of a mask and filters in a resealable tub for convenience and to ensure the mask is stored and transported correctly.

Compatible with:

- 3M™ Pro2000 Filter Attachment System



	Classification	Size
AVIVA 40 Half Mask	EN140:1998	Small
AVIVA 40 Half Mask	EN140:1998	Medium
AVIVA 40 Half Mask	EN140:1998	Large

3M™ Reusable Respirators

3M™ Reusable Full Face Mask 7907S

The 3M™ Full Face Mask 7907S offers durability and safety for demanding tasks that require face and respiratory protection. The 3M™ Bayonet Connection System offers a broad range of twin lightweight filters to protect against gases, vapours and particulates depending on your individual needs.

The 7907S full face mask by 3M can also be used with Supplied Air Systems by 3M for your increased convenience and flexibility.

Features and benefits:

Six Strap Head harness

- Easy and secure fit for maximum safety
- Provides greater stability
- Easy release buckles

Full Face Lens

- Large polycarbonate lens with wide field of view
- Spectacle kit and lens covers available

Facepiece

- Double face sealing for safe, secure fit to most face sizes
- Silicone rubber one-size-fits-all
- Highly durable
- Range of consumables available
- Speech Diaphragm for improved communication

3M™ Bayonet Filter Connection System

- Twin filter design provides lower breathing resistance
- Better weight distribution and more balanced fit
- Improved peripheral vision
- Safe and secure fit
- Optical marking of attachment point
- Flexible filter system for gas, vapour and particulate filters
- Optional supplied air connection.

Compatible with:

- 3M Supplied Air Systems
- 3M Hearing Protection
- 3M Bayonet Filter Connection System



3M™ Reusable Full Face Masks 6000 Series

The 3M™ Full Face Masks 6000 Series are simple to handle and comfortable to wear. 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:

4 Strap Head Suspension

- Easy to put on and take off
- Well balanced

Full Face Piece

- Soft, non-allergenic elastomeric face piece
- Extremely lightweight (400 grams) for high comfort
- Minimised dirt traps to stay clean
- Sleek look and feel

Full Face Lens

- Broad field of vision
- Polycarbonate lens, scratch and impact resistant to EN166:2001 B

3M™ CoolFlow™ Exhalation Valve

- Less exhalation resistance and easier breathing
- Effective removal of heat build up provides a cooler and more comfortable wear
- Reduces valve vibration

3M™ Bayonet Filter Connection System

- Twin filter design provides lower breathing resistance
- Better weight distribution and more balanced fit
- Improved peripheral vision
- Safe and secure fit
- Optical marking of attachment point
- Flexible filter system for gas, vapour and particulate filters
- Optional supplied air connection.

Compatible with:

- 3M Supplied Air Systems
- 3M Hearing Protection
- 3M Bayonet Filter Connection System



	Classification	Size
3M™ Full Face Mask 6700	EN 136:1998 (Class 1)	Small
3M™ Full Face Mask 6800	EN 136:1998 (Class 1)	Medium
3M™ Full Face Mask 6900	EN 136:1998 (Class 1)	Large

3M™ Reusable Respirators

3M™ Reusable Full Face Mask Vision Series

The Vision full face mask provides comfort, ease of use and wearer appeal. With a choice of mask sizes and filter positions, Vision can be suitable for a wide range of users and applications.

Vision series masks are compatible with the Pro2000 Series of filters, with a wide variety of compatible filters for use in many applications.

Features and Benefits:

Visor

- Vision features a large visor with a virtually unrestricted (98%) field of vision and is designed to reduce visual distortion
- The visor is moulded in polycarbonate, providing eye and face protection
- The visor is hard coated to offer excellent scratch resistance for a long service life
- The positioning of the filter permits good downwards visibility

User comfort

- Available in 2 sizes
- Liquid Silicon Rubber (LSR) faceseal to enhance user comfort. LSR is a durable material but remains soft against the skin and is highly flexible, conforming to the users face
- The broad contact area of the faceseal is designed to minimise pressure points and seals effectively without over-tightening the head harness
- The inner mask is moulded in TPE. The mask ensures a directional air flow to help prevent misting of the visor and to maintain low carbon dioxide levels. A matte finish helps to prevent reflective glare on the inside of the visor

Lightweight

- The mask weighs just over 600g

Filter Connection

- Vision RFF1000 features a front filter fitting
- Vision RFF4000 features a side filter fitting
- Vision Series masks are compatible with the Pro2000 Series of filters, including options for particulate, gas and combination hazards



3M™ Reusable Full Face Mask Vision Classification: EN 138:1998 Class 2

3M™ Full Face Mask Vision RFF1000
– front filter fitting – Medium / Large

3M™ Full Face Mask Vision RFF1000
– front filter fitting – Medium

3M™ Full Face Mask Vision RFF1000
– front filter fitting – Small

3M™ Full Face Mask Vision RFF4000
– side filter fitting – Medium / Large

3M™ Full Face Mask Vision RFF4000
– side filter fitting – Medium

3M™ Full Face Mask Vision RFF4000
– side filter fitting – Small

3M™ Reusable Respirators

3M™ Reusable Full Face Mask Promask

The Promask Full Face Mask is a multi-function respirator designed to provide comfort and protection against a wide range of respiratory hazards. Proven in several industrial applications, Promask utilises a T-Profile face seal design, providing an efficient seal with minimal pressure on the face.

Features and benefits:

Panoramic Visor

- Large visor with a wide field of view
- Choice of Polycarbonate or optional high heat visor
- Clear inner mask designed to improve downwards vision

Full shift comfort

- Available in 2 sizes
- Proven, durable construction for use in extreme applications
- Choice of halo-butyl compound or Silicone face mask
- Five point head harness for a secure, stable fit

Filter connection

- Side fitting filter port for improved forwards vision
- Single filter design
- Compatible with the Pro2000 Series of filters including particulate, gas and vapour and combination filters



3M™ Reusable Full Face Mask Sari

The Sari Full Face Mask is a multi-function respirator designed to provide durable protection against a wide range of respiratory hazards. Proven in several industrial applications, Sari is available in natural rubber or silicone variants to ensure suitability for a wide range of users.

Features and benefits:

Panoramic Visor

- Large visor gives the wearer a panoramic field of vision
- Choice of Polycarbonate or optional Triplex visor for high heat applications
- Visor misting is reduced by directing inhalation air flow across the inside of the visor

Full shift comfort

- Wide sealing edge for increased comfort
- Fully adjustable five point elasticated harness features quick release buckles for donning and doffing

Clear Communication

- Safeguarded speech diaphragm affords communication

Filter Connection

- Front fitting filter port
- Single filter design
- Compatible with the Pro2000 Series of filters including particulate, gas and vapour and combination filters

Durable Construction

- Durable construction, ideal for use in tough environments
- Available in 3 face seal materials
- Designed for minimum maintenance – inhalation and exhalation valves are easy to check and replace without tools





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