

# 3M<sup>™</sup> 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**

**GAS & VAPOUR** 

**PROTECTION ONLY** 

## **PARTICULATE PROTECTION** ONLY

#### 3M 2000 Series Filter Range 3M 6000 Series Filter Range P2 Particulate Protection Product Code - 3M 212 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 + Lightweight for optimal weight distribution + Extremely lightweight + Low breathing resistance field of vision + Low profile gives unobstructed field of vision OR P3 Particulate Protection (filter encapsulated in a Gas & Vapour Protection explained lightweight plastic case) Product Code - 3M 6035 the protection that each product provides P3 Particulate Protection + Nuisance Level Organic Vapour & Acid Gas these include xylene and toulene Product Code - 3M 6038 + Filter in a lightweight plastic case chlorine and bromine + Ideal for wet, dirty or high heat conditions Ε-+ Reduced chance of filter clogging K - Ammonia and its derivatives + 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 - 1 after the letter denotes Class 1 \*1 or 2 - 2 after the letter denotes Class 2

### PARTICULATE + GAS & VAPOUR PROTECTION

Check whether any 3M ready-stacked filters are

P3 Particulate Protection + Mercury Vapour + Organic

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

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

+ Unique low profile trapezoidal shape gives unobstructed

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

- A Organic Vapours (boiling point >65°C). Examples of
- B Inorganic Vapours, Examples of these include
- Acid gases. Examples of these include sulphuric acid
- AX Organic Vapours (boiling point <65°C). Examples of these include acetone and bromoethane
- Class 2 has higher gas capacity then Class 1

# 2.

1.

applicable

Product Code

Vapours A1 Hg P3R

- 3M 6096

If not, choose your Gas & Vapour filter from here

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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.





# $3M^{\text{TM}}$ 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.

## **Particulate Filters**

3M<sup>™</sup> 2000 Series Particulate Filters approved to EN143: 2000



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

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<sup>™</sup> 6035/6038 Series Particulate Filters with EN143: 2000



 $3M^{\mbox{\tiny TM}}$  6000 Series Gas and Vapour Filters

Filter	Protection level	Protection against
6051	A1	organic gases & vapours*
6054	K1	ammonia and its derivatives*
6055	Α2	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 $^{\circ}\mathrm{C}$ ) 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.



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 (hulf 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<sup>™</sup> 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	