

# Solutions for Worker Safety

*Helping to protect your health with reliable, comfortable solutions and specialist support*



[www.3m.com/OccSafety/WorkerSafety](http://www.3m.com/OccSafety/WorkerSafety)

\*3M Respirators and Hearing Protection Products – Exclusive NASCAR Officially Licensed Products

**3M Safety**



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# 3M Filtering Facepiece Particulate Respirators



## 3M™ Filtering Facepiece Particulate Respirators

From foundries to wood working, workers in many industries require protection from airborne particles and mists. Sweeping, sanding, grinding, sawing, bagging, welding — each creates a unique set of demands, especially given environmental considerations such as heat and humidity. 3M's wide selection of filtering facepiece respirators helps you match the respirator to your work environment. 3M uses a variety of innovative technologies and features to meet your protection and comfort needs. They are all approved under NIOSH 42 CFR 84.

### Features

- Lightweight and comfortable
- Adjustable noseclips
- Variety of strap types
- Variety of strap attachments (stapled, welded, adjustable buckle)
- Some available with carbon filter material for nuisance level odors<sup>4</sup>
- Soft inner materials (e.g. nosefoam, face seal)
- Compatible with eye and hearing protection

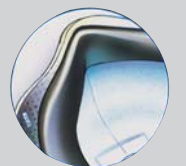
## Patented Technologies



**Cool Flow™ Exhalation Valve.**  
Patented one-way valve for easy exhalation and cool, dry comfort.



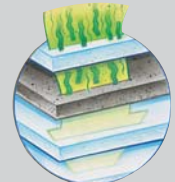
**M-noseclip.**  
Adjusts easily for fewer pressure points and greater comfort.



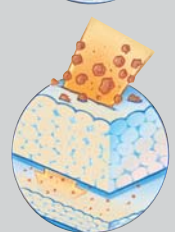
**Faceseal.**  
Soft and secure, conforms closely to face for long-lasting comfort.



**Advanced Electret Media.**  
Electrostatically charged microfibers help make breathing easier and cooler.



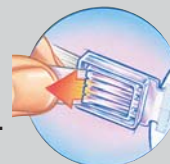
**Carbon filter material.**  
Carbon layers remove many nuisance level odors<sup>4</sup> for greater wearer comfort.



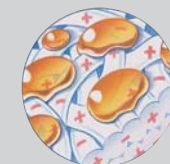
**Cake-resistant filter media.**  
Specially designed filter layers for welding applications provide longer respirator life and easier breathing.



**Welding Web**  
Unique filter media and protective layers are designed to be flame resistant as demonstrated per ASTM D2859-96. (Not a substitute for a faceshield.)



**Adjustable buckle straps.**  
A single tug helps provide a comfortable, secure fit.



**P-series filter.**  
Featuring Advanced Electret Media, appropriate for prolonged use in both oil and non-oil containing environments.













**Compatibility.**  
Accommodates a wide range of safety equipment, including eye and hearing protection.

**WARNING ! See warnings on inside back cover.**

3M Automotive Aftermarket Division (AAD) Product Numbers are found in blue type on select products

# 3M™ Filtering Facepiece Particulate Respirators

Dusty Conditions

	Product Number	NIOSH Classification <sup>1</sup>	Suggested Applications	3M™ Cool Flow™ Valve	Nose-clip <sup>2</sup>	FaceSeal/ Nose Foam <sup>3</sup>	Carbon Filter Material <sup>4</sup>	Braided Comfort Straps	Other
	8000 <b>AAD#07027</b>	N95	Grinding, Sanding, Sweeping, Other dusty operations		S				Economical N95
	8110S (small)	N95	Grinding, Sanding, Sweeping, Other dusty operations		S	NF			
	8210	N95	Grinding, Bagging, Sanding, Sweeping, Other dusty operations		S	NF			Welded strap attachment
	8210Plus <b>AAD#07048</b>	N95	Grinding, Bagging, Sanding, Sweeping, Other dusty operations		S	NF		x	Welded strap attachment
	8211	N95	Grinding, Bagging, Sanding, Sweeping, Buffing, Cement, Poultry, Textile, Lime, Other dusty/hot operations	x	M	FS		x	
	8240	R95	Grinding, Machining, Sanding, Sweeping, Other dusty/oily operations		S	NF		x	Collapse resistant
	8511 <b>AAD#07185</b>	N95	Grinding, Bagging, Sanding, Sweeping, Other hot/dusty operations	x	M			x	Soft inner materials
	8271	P95	Grinding, Machining, Sanding, Sweeping, Other dusty/hot/oily operations	x	M	FS		x	
	9210 <b>AAD#37021</b>	N95	Grinding, Bagging, Sanding, Sweeping, Other dusty operations		S	NF			Collapse resistant, individually packaged, 3-panel design for convenient storage and portability
	9211 <b>AAD#37022</b>	N95	Grinding, Bagging, Sanding, Sweeping, Other dusty operations	x	S	NF			Collapse resistant, individually packaged, 3-panel design for convenient storage and portability

1. **N95** – Not for oil, at least 95% efficient **R95** – Oil resistant, at least 95% effective **P95** – Oil proof, at least 95% efficient **N100** – Not for oil, at least 99.97% efficient **P100** – Oil proof, at least 99.97% efficient 2. **S** – Standard adjustable noseclip **M** – M-noseclip 3. **NF** – Nose foam **FS** – FaceSeal  
 4. **AG** – 3M recommended nuisance level acid gas relief (nuisance levels are less than OSHA PEL) **OV** – 3M recommended nuisance level organic vapor relief (nuisance levels are less than OSHA PEL) **OZ** – 3M recommended for ozone protection up to 10X OSHA PEL. (Not NIOSH approved for ozone)






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**WARNING ! See warnings on inside back cover.**

# 3M™ Filtering Facepiece Particulate Respirators

Dusty Conditions/Nuisance Odors

	Product Number	NIOSH Classification <sup>1</sup>	Suggested Applications	3M™ Cool Flow™		FaceSeal/ Nose Foam <sup>3</sup>	Carbon Filter Material <sup>4</sup>	Braided Comfort Straps	Other
				Exhalation Valve	Nose-clip <sup>2</sup>				
	8246	R95	Aluminum smelting, Paper processing, Brewing operations, Glass etching, Chemical processing		S	NF	AG	x	
	8247 AAD#07186	R95	Foundry operations, Undercoating, Lab settings, Agriculture, Petrochemical processing		S	NF	OV	x	
	8516	N95	Aluminum smelting, Paper processing, Brewing operations, Glass etching, Chemical processing	x	M		AG	x	Soft inner materials
	8576	P95	Aluminum smelting, Paper processing, Brewing operations, Glass etching, Chemical processing	x	M		AG	x	Soft inner materials
	8577	P95	Foundry operations, Undercoating, Lab settings, Agriculture, Petrochemical operations	x	M		OV	x	Soft inner materials

**1. N95** – Not for oil, at least 95% efficient **R95** – Oil resistant, at least 95% effective **P95** – Oil proof, at least 95% efficient **N100** – Not for oil, at least 99.97% efficient **P100** – Oil proof, at least 99.97% efficient **2. S** – Standard adjustable noseclip **M** – M-noseclip **3. NF** – Nose foam **FS** – Faceseal **4. AG** – 3M recommended nuisance level acid gas relief (nuisance levels are less than OSHA PEL) **OV** – 3M recommended nuisance level organic vapor relief (nuisance levels are less than OSHA PEL) **OZ** – 3M recommended for ozone protection up to 10X OSHA PEL (Not NIOSH approved for ozone)

## Additional Information

3M's NIOSH approved filtering facepiece respirators contain no components made from natural rubber latex. Consult the Material Safety Data Sheet (MSDS) for specific materials of construction. MSDS's are readily available on our website at [3M.com/OccSafety](http://3M.com/OccSafety).

## Important

All 3M™ Filtering Facepieces are NIOSH approved respirators. Before using, you must determine the following:

1. The types of contaminants for which the respirator is being selected and exposure time.
2. The concentration level of the contaminant(s). Do not use for aerosol concentrations that exceed 10 times the OSHA PEL or applicable occupational exposure limit, whichever is lower.

3. Whether the respirator can be properly fitted to the wearer's face. Do not use with beards, or other conditions that prevent a good seal between the face and the sealing surface of the respirator.
4. Before required use of filtering facepiece respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134 including medical evaluation, training, and fit testing.

**WARNING ! See warnings on inside back cover.**








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# 3M™ Filtering Facepiece Particulate Respirators



Welding and Metal Pouring

Class 100

	Product Number	NIOSH Classification <sup>1</sup>	Suggested Applications	3M™ Cool Flow™		FaceSeal/ Nose Foam <sup>3</sup>	Carbon Filter Material <sup>4</sup>	Braided Comfort Straps	Other
				Exhalation Valve	Nose-clip <sup>2</sup>				
	8212	N95	Welding, Torch cutting, Brazing, Soldering, Metal pouring	x	S	FS		x	Adjustable buckle strap, welding web, cake resistant filter media
	8512	N95	Welding, Torch cutting, Brazing, Soldering, Metal pouring	x	S	NF		x	Adjustable buckle strap, welding web, cake resistant filter media
	8214 <b>AAD#07187</b>	N95	Welding, Torch cutting, Brazing, Soldering, Metal pouring, Stainless, Galvanized, Aluminum	x	S	FS	OV OZ	x	Adjustable buckle strap, welding web, cake resistant filter media
	8514	N95	Welding, Torch cutting, Brazing, Soldering, Metal pouring, Stainless, Galvanized, Aluminum	x	S	NF	OV OZ	x	Adjustable buckle strap, welding web, cake resistant filter media
	8515 <b>AAD#07189</b>	N95	Welding, Torch cutting, Brazing, Soldering	x	M			x	Welding web, economical welding respirator
	8233	N100	Lead, MDA <sup>5</sup> , Arsenic, Cadmium, Welding, Pharmaceutical mfg.	x	S	FS		x	Adjustable buckle strap
	8293	P100	Lead, MDA <sup>5</sup> , Arsenic, Cadmium, Welding, Pharmaceutical mfg.	x	S	FS		x	Adjustable buckle strap

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 4. **AG** – 3M recommended nuisance level acid gas relief (nuisance levels are less than OSHA PEL) **OV** – 3M recommended nuisance level organic vapor relief (nuisance levels are less than OSHA PEL) **OZ** – 3M recommended for ozone protection up to 10X OSHA PEL (Not NIOSH approved for ozone)  
 5. **MDA** – Methyleneedianiline

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# 3M Half Facepiece Respirators 5000 Series



The innovative design of 3M™ Half Facepiece Disposable Respirators 5000 Series makes them an easy, economical way to help ensure worker protection. A lightweight, well-balanced design provides greater worker comfort. These respirators are pre-assembled, have no spare parts and require no maintenance.

The 5000 Series maintenance-free respirators are ideal for safety applications where respirators are only used occasionally or where disposability is required.

## Features

- Available in three sizes (small, medium, large) to fit many faces.
- No ongoing maintenance necessary—saves both time and money.
- Resealable storage bag helps keep respirator clean between uses.
- Low profile design provides wider field of vision and greater comfort while wearing goggles or glasses.
- Can be used with NIOSH-approved 3M™ Filters N95, P95 and P100 for oil and non-oil particles.
- For convenience and simplicity, some respirator package assemblies are packaged with either 3M™ Filters P95 or P100 along with 3M™ Filter Retainers 501 or 3M™ Filter Adapters 502.

**⚠ WARNING ! See warnings on inside back cover.**

# 3M™ Half Facepiece Respirators 5000 Series — Product Matrix

## Respirators



5101 (S)  
5201 (M)  
5301 (L)  
OV



5103 (S)  
5203 (M)  
5303 (L)  
OV/AG



5106 (S)  
5206 (M)  
5306 (L)  
Multi-Gas/Vapor

## Filters



5N11  
N95 Filter



5P71  
P95 Filter  
**AAD#07194**



2071  
P95 Filter



2091  
P100 Filter  
**AAD#07000**



7093  
P100 Filter

## Filter Retainer and Adapter



501 Filter Retainer  
**AAD#07054**



502 Filter Adapter\*

## Assemblies



51P71 (S)  
52P71 (M)  
53P71 (L)  
P95/OV  
**AAD#07191 (S)**  
**#07192 (M)**  
**#07193 (L)**



51911 (S)  
52911 (M)  
53911 (L)  
P100/OV



51913 (S)  
52913 (M)  
53913 (L)  
P100/OV/AG



51916 (S)  
52916 (M)  
53916 (L)  
P100/Multi-Gas/  
Vapor

OV = NIOSH approval: Certain organic vapors.

OV/AG = NIOSH approval: Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide (escape only) or hydrogen fluoride.

Multi-Gas/Vapor = NIOSH approval: Certain organic vapors, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, hydrogen sulfide (escape only) ammonia/methylamine, formaldehyde\*\* or hydrogen fluoride.

P95/OV = NIOSH approval: P95/certain organic vapors.

P100/OV = NIOSH approval: P100/certain organic vapors.

P100/OV/AG = NIOSH approval: P100/certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide (escape only) or hydrogen fluoride.

P100/Multi-Gas = NIOSH approval P100/certain organic vapors, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, hydrogen sulfide (escape only) ammonia/methylamine, formaldehyde\*\* or hydrogen fluoride.

\* Do not reuse.

\*\* OSHA regulations require that gas-proof goggles be worn with half facepiece respirators when used against formaldehyde.

3M Automotive Aftermarket Division (AAD) Product Numbers are found in blue type on select products

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**WARNING ! See warnings on inside back cover.**

# 3M Half and Full Facepiece Respirators 6000 and 7000 Series



The 3M™ Half and Full Facepiece Respirators 6000 Series and 7000 Series use interchangeable filters and cartridges, minimizing the number of parts your facility needs to stock. They are versatile enough to meet all your current and future respirator needs. These products offer unique benefits, without limiting wearer comfort. All are available in three sizes to fit many faces, making the respirator brand standardization decision simple—3M!



### 3M™ Half Facepiece Respirators 6000 Series Reusable Provides Lightweight, Easy-to-use, Economical Protection

- An economical choice.
- Facepiece is made from soft, lightweight thermoplastic elastomer.

- Available with a standard or drop-down head harness option.
- Drop-down model allows wearers to lower the respirator without removing welding shield, hardhat or faceshield.
- Head harness assembly and spare parts available.



### 3M™ Half Facepiece Respirators 7500 Series, Reusable Provides Comfortable, Soft Silicone Face Seal

- Made of silicone for greater comfort and helps provide a softer feel on the face.

- 3M™ Cool Flow™ Exhalation Valve for easy exhalation for cool, dry comfort; and designed to be long lasting.
- Can be used with a variety of cartridges and filters that help protect against both dust and/or odor.



### 3M™ Full Facepiece Respirators 6000 Series Reusable

- Lightweight design with silicone face seal enhances comfort and improves durability.
- Wide field of vision helps wearers feel safe.
- Available in six different modes; can be used with both negative- and positive-pressure systems.



### 3M™ Full Facepiece Respirator 7800S, Provides Durable Full Face Protection

- Extra-large inhalation and exhalation valves help make breathing easier.
- Double-flange face seal and six adjustable straps help provide a secure fit.
- Available in 11 different modes – from negative-pressure air purifying to SCBA. Excellent choice for standardizing your entire facility's respiratory requirements.

**⚠ WARNING ! See warnings on inside back cover.**

# 3M™ Half and Full Facepiece Respirators 6000 Series and 7000 Series — Product Matrix



## Facepieces



**AAD#07024** 6100 (S)  
**AAD#07025** 6200 (M)  
**AAD#07026** 6300 (L)



6100DD (S)  
6200DD (M)  
6300DD (L)



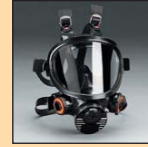
6700 (S) **AAD#07138**  
6800 (M) **AAD#07139**  
6900 (L) **AAD#07140**



6700DIN (S)  
6800DIN (M)  
6900DIN (L)

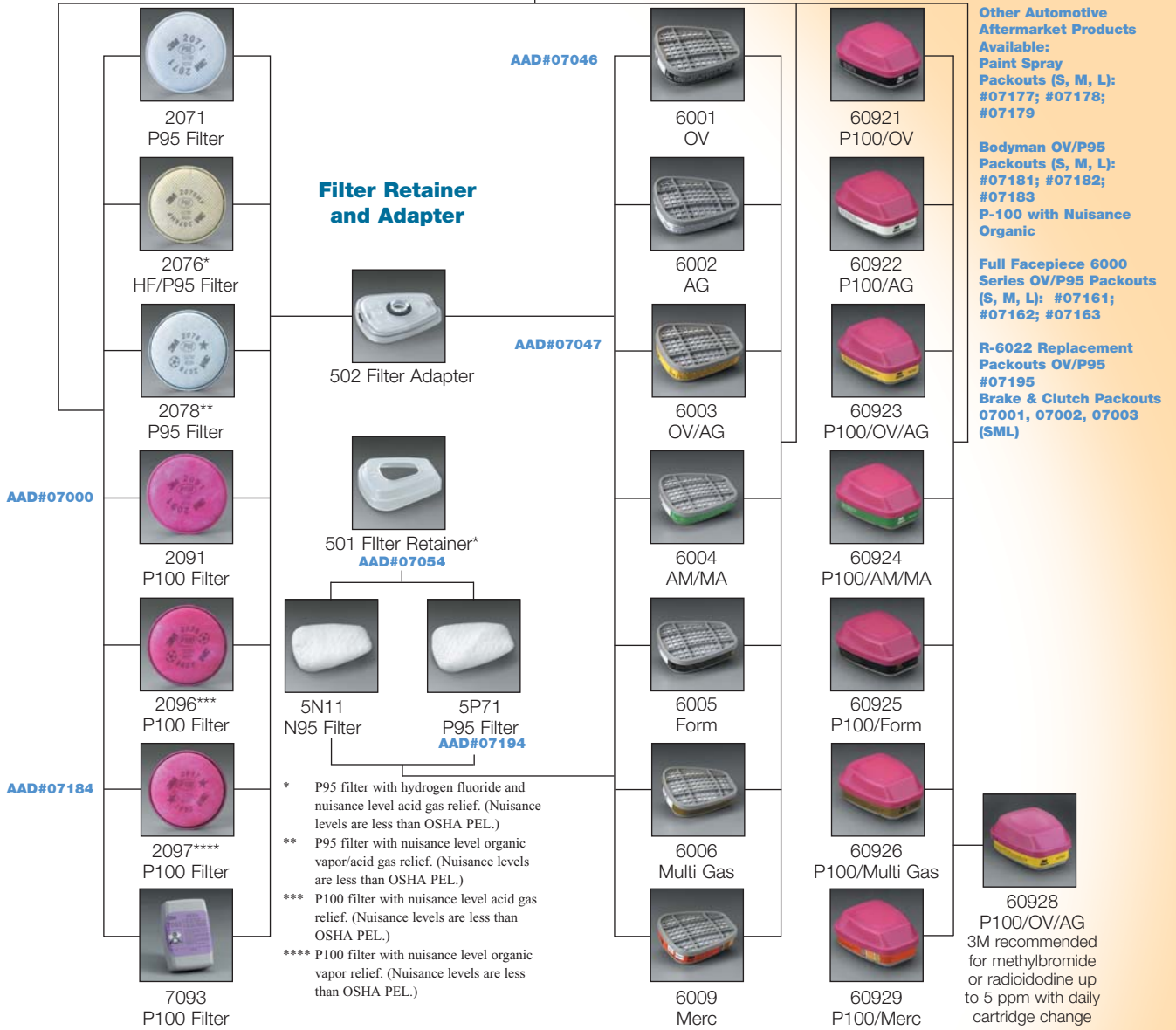


7501 (S)  
7502 (M)  
7503 (L)



7800S (S)  
7800S (M)  
7800S (L)

## Cartridges and Filters



OV = NIOSH approval: Certain organic vapors.  
 AG = NIOSH approval: Chlorine, hydrogen chloride, and sulfur dioxide or chlorine dioxide or hydrogen sulfide (escape only).  
 OV/AG = NIOSH approval: Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide (escape only) or hydrogen fluoride.

AM/MA = NIOSH approval: Ammonia and methylamine.  
 Form = NIOSH approval: Formaldehyde† and certain organic vapors  
 Multi-Gas/Vapor = NIOSH approval: Certain organic vapors, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, hydrogen sulfide (escape only)

†OSHA regulations require that gas-proof goggles be worn with half facepiece respirators when used against formaldehyde.  
 \* Do not reuse.  
 Merc = NIOSH approval: Mercury vapor or chlorine gas.  
 amonia/methylamine, formaldehyde† or hydrogen fluoride.

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**WARNING ! See warnings on inside back cover.**

# 3M Personal Air Monitoring Systems



## Features

- **Simple and convenient.** There are no batteries, hoses, pumps, or equipment to calibrate.
- **Easy to use.** Just clip the monitor to shirt lapel, collar, or pocket.
- **Versatile.** 3M monitors can also be used for area monitoring, if sufficient air flow exists.
- **Product support.** 3M provides reference information needed to use the monitors.
- **Analysis options.** 3M monitors can be analyzed in the lab of your choice or returned for analysis.
- **Confidence.** Our analysis facility is accredited by the American Industrial Hygiene Association.
- **Comfort.** 3M monitors are small and lightweight and will not interfere with employee activities.

## The Economical, Accurate Way to Monitor Your Workplace

3M™ Air Monitors are simple and effective devices that collect certain airborne contaminants using the scientific principle of diffusion. They meet or exceed  $\pm 25\%$  accuracy at a 95% confidence level for many workplace contaminants.

These air monitor systems can be analyzed in the lab of your choice or purchased with analysis included.



### Organic Vapor Monitors

3500, 3510\*

AAD#37023



### Organic Vapor Monitors With Back-Up Section

3520, 3530\*



### Ethylene Oxide Monitors

3550\*, 3551, 3551B



### Formaldehyde Monitors

3720\*, 3721, 3721B

\*Includes pre-paid analysis.

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# 3M Powered and Supplied Air Purifying Respirators

## 3M™ Powered Air Purifying Respirators (PAPRs)



A PAPR is a powered air respirator system that uses a fan to deliver filtered air into a hood, helmet or full facepiece. There are many different PAPR configurations available. Depending on the working environment, select the PAPR style that best meets your needs.

Powered air systems also provide head, eye and face protection. They are available as face-mounted, helmet-mounted and belt-mounted configurations. PAPR systems include a headpiece, often a breathing tube, motor-blower unit, filters, a cartridge and battery.

## 3M™ Supplied Air Respirators



3M™ Supplied Air Respirators are designed to deliver clean air to the worker. The air\* can be supplied from a high pressure compressor, low-pressure pumps, or cylinders (bottled air). This clean, breathable air can be delivered to hoods, helmets, full facepieces, half facepieces and loose-fitting facepieces.

Supplied air respirators offer many features over traditional respiratory protection such as:

- Cooling or heating incoming air
- Fit testing only required on tight-fitting facepieces
- Low maintenance

Supplied air systems are a good way to help increase comfort and protection.

For an overview of headgear used with supplied air respirators, review pages 12-13 of this document.

\*It is the employer's responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1-1997 in the U.S. In Canada refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

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**WARNING ! See warnings on inside back cover.**

# 3M Powered and Supplied Air Headgear



## Powered and Supplied Air Respirator System Categories

The photos and descriptions below are an overview of the different headgear systems that 3M offers. Each has distinct features that may best suit your needs. Find the unit that best matches your requirements and review the charts on the following pages to help guide your selection process. For product specific performance indicators see matrix on page 13.

### 3M™ Bumpcaps, Hardhats and Helmets

- Welding variants of each category available
- Can be worn with glasses
- No fit testing required
- Lifiable lens
- Ratchet head suspension on most models
- Assigned protection factor\* for Bumpcaps and Hardhat: 25xPEL; for Helmets: 1000xPEL\*\*
- Accommodates facial hair and beards\*\*\*



#### L-Series

- Bumpcap, hardhat and helmet category products
- Welding variants
- See matrix pages 13, 14, 16, 23



#### BE-Series

- Hardhat protection
- Welding option
- See matrix pages 13, 15, 18, 19



#### W-8100B

- Abrasive blasting helmet
- See matrix pages 13, 24



#### Tight-Fitting Facepieces

- Full facepiece products available in three sizes
- Low profile for good visibility

- Use in negative or positive pressure applications
- Comfortable face seals
- Half facepiece options available with supplied air systems
- Welding variant available
- See matrix pages 16, 18, 19, 22, 25



#### Headcovers and Visors

- Lightweight
- Tychem® QC material
- See pages 13, 17, 18, 19 for BE-12 Series headcovers

- ClearVisor, see page 20



#### Hoods

- Hardhat options
- Lightweight
- Tychem® QC and Tychem® SL materials

- See pages 13, 15, 16, 24 for H-Series Hoods; see pages 13, 17, 18, 19 for BE-10 Series Hoods

\*Assigned protection factors may vary for specific standards as promulgated by OSHA (e.g. continuous flow supplied air respirators are assigned a protection factor of 100 in the OSHA Asbestos Standards, 29 CFR 1910.1001 and 29 CFR 1926.1101). Where assigned protection factors in local, state, or federal standards are lower than those listed here, they should be used instead. For additional limitations of 3M respiratory protection products, refer to 3M respirator packaging and use instructions and limitations.

\*\*3M recommended assigned protection factors are based on workplace and laboratory performance tests of our respirators and review of current assigned protection factor recommendations established by other groups where assigned protection factors have not been established by regulatory agencies.

\*\*\* Providing the facial hair does not come between the face and the face seal of a loose-fitting facepiece or protrude under the shroud of a hood.

**WARNING ! See warnings on inside back cover.**

# 3M™ Powered and Supplied Air Headgear



	Can be worn with limited Facial Hair*	Meets ANSI Z87.1-2003 High Impact Standard	Meets ANSI Type I and II Hardhat requirements ANSI Z87.1-2003	For Welding	For Grinding	Works with the Following 3M Assemblies					Protection Factor
						GVP Assembly	Air-Mate™ Assembly	Breathe Easy™ Assembly	Adflo™ Assembly	Supplied Air	
<b>Headtop</b>											
<b>L-501</b>	4	4			4	4				4	x25
<b>L-503</b>	4	4		4		4				4	x25
<b>L-505</b>	4	4		4	4	4				4	x25
<b>L-701</b>	4	4	4		4	4				4	x25
<b>L-703</b>	4	4	4	4		4				4	x25
<b>L-705</b>	4	4	4	4	4	4				4	x25
<b>L-901</b>	4	4	4		4	4				4	x1000
<b>L-905</b>	4	4	4	4	4	4		4		4	x1000
<b>W-8100B</b>	4	4	4		4					4	x1000
<b>520-02-28R01</b> <b>520-01-83R01</b>	4	4	4		4			4			x25
<b>520-01-84R01</b>	4	4	4	4				4			x25
<b>6000 Full Facepiece</b>		4			4	4		4		4	x1000
<b>7000 Full Facepiece</b>		4		4	4	4		4		4	x1000
<b>ClearVisor Faceshield</b>									4		x25
<b>Speedglas™ Helmet 9000 HWR</b>									4		x25

	Can be worn with limited Facial Hair*	Meets ANSI Faceshield Requirements ANSI Z87.1-2003	Meets ANSI Type I and II Hardhat requirements ANSI Z87.1-2003	Inner Shroud Option	Collar Option	Chemical Resistant	Built-in Suspension	Works with the Following 3M Assemblies				Protection Factor
								GVP Assembly	Air-Mate™ Assembly	Breathe Easy™ Assembly	Supplied Air	
<b>Hoods</b>												
<b>H-400 Series</b>	4		Optional	4	4			4			4	x1000
<b>H-600 Series</b>	4		Optional		4	4		4			4	x1000
<b>H-900 Series</b>	4		Optional	4	4			4			4	x1000
<b>BE-10/BE-10L</b>	4			4			4		4	4	4	x1000
<b>BE-10 BR (Butyl Rubber)</b>	4			4		4	4		4			x1000
<b>BE-12/BE-12L/BE-12B</b>	4						4		4	4		x25

\* Providing the facial hair does not come between the face and the faceseal of a loose-fitting facepiece or protrude under the shroud of a hood.

# 3M L-Series Spare Parts and Accessories

Part(s)	Part #	Description:	Notes:
Lens Cover	L-133	Disposable Lens Covers	Disposable lens covers help protect the visor from scratches and distortions. Replace as needed to insure proper visibility. Available in packs of 25 (L-133-25) or 100 (L-133-100)
Faceseals and Shrouds	L-121	Tychem®QC Faceseal	Faceseals insure that a proper seal is maintained with the wearer's skin. Damaged or worn faceseals can cause leaks, which could decrease airflow, battery life, and increase the risk of exposure
	L-123 <sup>1</sup>	Tychem®QC Shroud	
	L-124 <sup>2</sup>	Flame Retardant Faceseal - Polyester	
	L-125 <sup>3</sup>	Flame Retardant Shroud	
	L-128 <sup>4</sup>	Cordura Nylon Shroud	
	L-120	Faceseal, Flame Retardant - Softguard	
Lens Assembly	L-130	Wide-view Faceshield Assembly	
	L-131	Wide-view Lens	
	L-132	Wide-view Lens, High Temperature	For use in high temp environments, where there exists potential for warping of the lens
	L-134	Latch Kit	Replace latches when missing or broken. Do not use unit if latches are defective
	L-136	Cam Spring Set	Replace when faceshield will not stay in up or down position, or if the faceshield is loose in a closed position
	L-137	Wide-view Faceshield Extender	Replace assembly when warped
Head Suspension	L-112	Chin Strap	Accessory. Replace when worn or damaged
	L-113	Head Suspension	Replace when bracket damaged or it will not tighten
	L-115	Sweat Pad	Replace when dirty or when foam begins to degrade
	L-116	Head Pad	Replace when dirty or damaged
	L-117	Hanger Suspension	Replace when broken
External Knobs	L-140	Knob	Replace when missing or broken
	L-141	Knob and Pivot Kit	Replace when missing or broken
Helmet and Head Seal	L-163	Head Seal Kit	Replace when dirty or damaged
	L-182	Air Deflector	Replace when missing or broken
	L-183	Headgear Cover	Prevents scratches and damage to the headtop

<sup>1</sup> For L-901 series helmets only

<sup>2</sup> Flame retardant faceseal for L-500 and L-700 series helmets.

<sup>3</sup> Flame retardant shroud for L-900 Series helmets only.

<sup>4</sup> Cordura Nylon fabric shroud for use with L-900 Series only.

Proper use and maintenance of the equipment is essential to its ability to function. Over time, parts and pieces will become worn or damaged, and they will require replacement. Operating equipment with damaged or worn parts can decrease the unit's ability to protect, decrease airflow, and could result in serious personnel injury or even death.

Before each use of the product, please inspect for any rips, damages, tears, etc.

 **WARNING ! See warnings on inside back cover.**

# 3M™ Hoods and Headgear Parts and Accessories



3M™ H-Series Replacement Hoods and Parts		Replace when/if...
<b>H-110-10</b>	Faceshield Cover (10 pack)	
<b>H-111-100</b>	Faceshield Cover (100 pack)	
<b>H-113-2</b>	Cap Suspension (2 pack)	Worn or damaged
<b>W-2878-2</b>	Hardhat Suspension (2 pack)	Worn or damaged
<b>H-114-2</b>	Chin Strap (2 pack)	Worn or damaged
<b>H-115</b>	Breathing Tube Assembly (includes H-116 breathing tube with connector, W-5102 thumbscrew clamp, and W-3222 plastic squeeze clamp)	When abraded, cracked or damaged
<b>H-116-2</b>	Breathing Tube (2 pack)	
<b>H-410-10</b>	H-400 Series Hood with collar (10 pack)	
<b>H-420-10</b>	H-400 Series Hood with inner shroud (10 pack)	
<b>H-610-5</b>	H-600 Series Sealed Seam Hood with collar (5 pack)	
<b>H-910-5</b>	H-900 Series Grinding Hood with collar (5 pack)	
<b>H-920-5</b>	H-900 Series Grinding Hood with inner shroud (5 pack)	
<b>W-3222-2</b>	Squeeze Clamp, plastic (2 pack)	Replace when worn or damaged
<b>W-3258-5</b>	Hatshell (suspension not included ) (5 pack)	

3M™ BE-Series Replacement Hoods and Parts		Replace when/if...
<b>520-01-13R01</b>	White Helmet Shell	Cracked, warped, yellowed, chipped
<b>520-01-33R01</b>	Black Helmet Shell	Cracked, warped, chipped, faded color
<b>061-37-00R02</b>	Pivot and Cam	Missing, broken
<b>AS170/AS170B</b>	Visor Surround	Cracked, warped, broken
<b>522-01-01R01</b>	Visor	Cracked, warped, crazed
<b>060-49-02R10</b>	Temple Seal	Out of position, damaged
<b>060-28-03R01</b>	Headseal	Missing, torn, ripped, warped
<b>527-01-19R01</b>	Facesseal – Sontara	Missing, torn, holed, ripped
<b>527-01-15R10</b>	Facesseal – Tychem®	Missing, torn, holed, ripped
<b>AS-150</b>	Cradle Assembly	Broken, torn
<b>060-38-05R01</b>	Headband	Broken, torn
<b>060-39-01R01</b>	Comfort Band	Heavily soiled, missing

# 3M™ GVP-Series Belt-Mounted Powered Air Purifying Respirators — Product Matrix

The GVP PAPR is a motorized blower unit worn at the waist, that delivers filtered air into a hood, helmet or facepiece. The GVP allows the wearer to choose from a wide selection of filters that offer flexibility and freedom to work in a variety of industrial environments. These systems are compatible with many different styles of headgear ranging from lightweight hoods, bumpcaps, hardhats, helmets and full facepiece respirators.

- Features**
- High levels of airflow
  - Contoured for maximum comfort
  - Eight hour battery
  - Intrinsically safe
  - Inlet and outlet plugs to allow blower unit to be completely sealed for decontamination



\* Grinding hood assemblies (hardhat option only) may be built with the following available parts: either H-910-5 or H-920-5 grinding hoods, W-3258-5 hatshell, W-2878-2 suspension, H-114-2 chin strap and a W-3222-2 plastic squeeze clamp. \*\* Clip-on Welding Shield also available.

OV = NIOSH approval: Certain organic vapors.  
 AG<sup>1</sup> = NIOSH approval: Chlorine, hydrogen chloride, sulfur dioxide, chlorine dioxide or hydrogen fluoride.  
 AG<sup>2</sup> = NIOSH approval: Chlorine, hydrogen chloride, sulfur dioxide, chlorine dioxide, hydrogen fluoride or hydrogen sulfide (escape only).

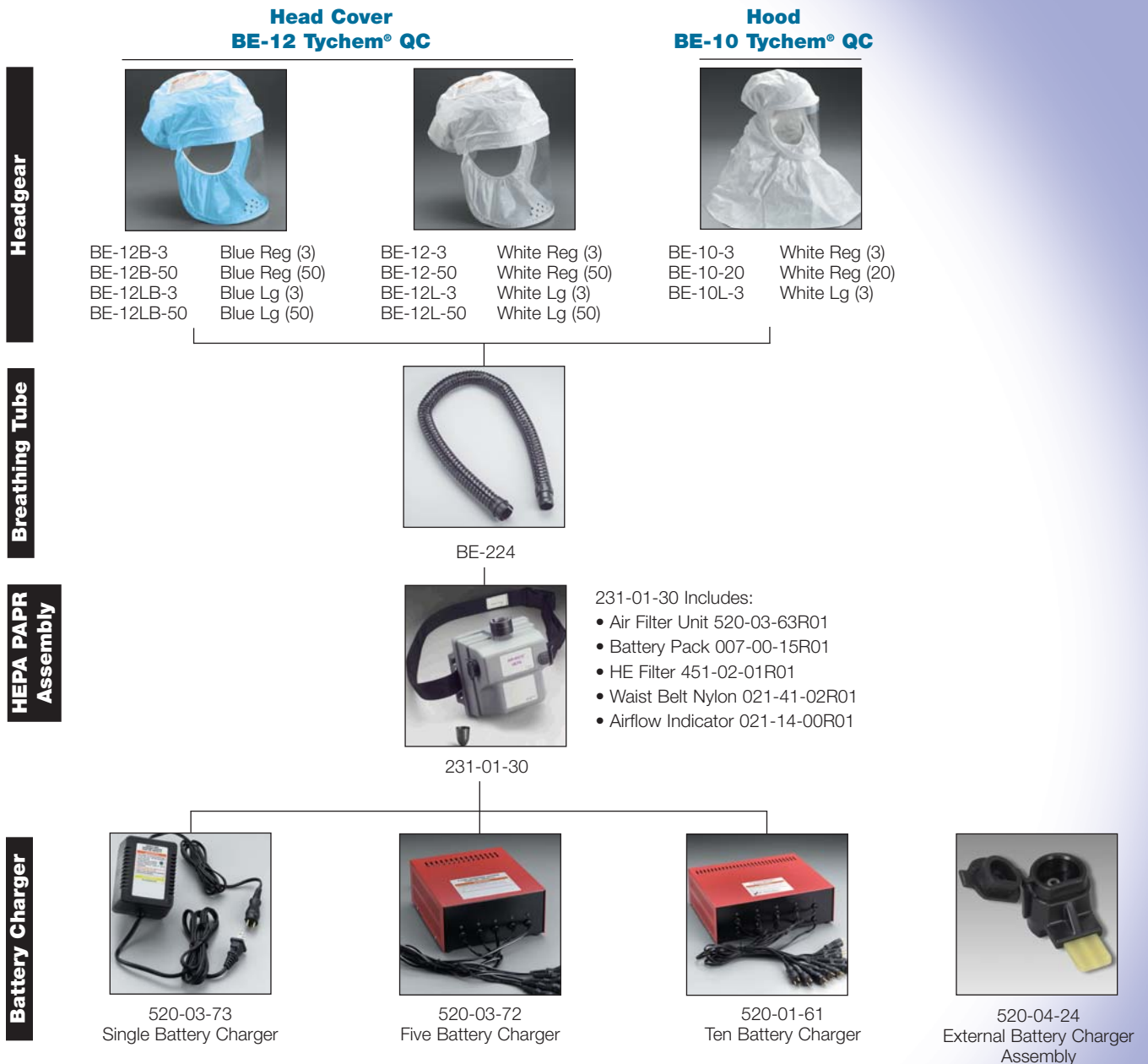
**WARNING ! See warnings on inside back cover.**

3M Automotive Aftermarket Division (AAD) Product Numbers are found in blue type on select products

# 3M™ Air-Mate™ or High Efficiency (HE) Belt-Mounted Powered Air Purifying Respirator Systems — Product Matrix

## Features

- Lightweight
- Filter and battery are enclosed in single unit
- Up to eight hours of battery service per charge
- Choice of Tychem® hood or Tychem® QC head cover
- High efficiency particulate filter only
- Battery can be charged either within unit or externally using the 520-04-24 external battery charger assembly



# 3M™ Breathe Easy™ Belt-Mounted System with NiMH BP-15 Battery — Product Matrix

## Breathe Easy™ Powered Air Purifying Respirator (PAPR) Standard System 520-15-00

- Good for the following industries: Abatement, Nuclear Utilities, Smelting, Lead Reclamation, Pharmaceutical, Foundry, Steel and Welding. First Responder – Butyl Rubber hood system only.
- Uses the new BP-15 NiMH Battery which has a quick charge time (90% charge after 2 hours; 100% charge after 4 hours) and increased airflow (approximately 20% increase).

- ### Features
- Eight hour battery
  - Comfortable to wear
  - Wide variety of headgear



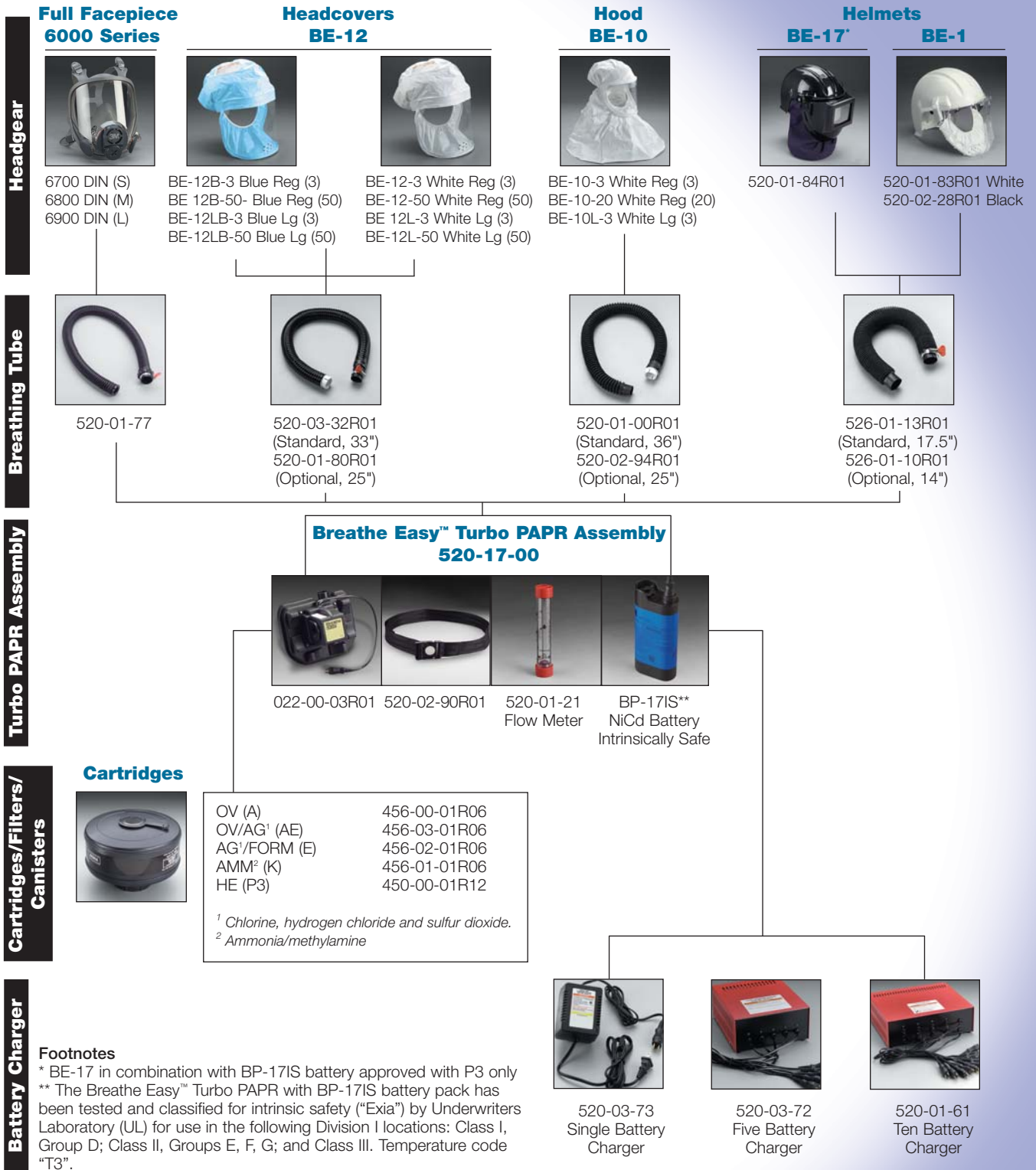
**Footnotes**  
 \*FR-57 Approved with BE-10 and 6000 ONLY  
 \*\*Butyl Rubber Hood Approved with FR-57, AP3 and AEP3 ONLY  
 \*\*\*BE-17 Approved with P3, AP3, AEP3, ALP3 and EP3  
 \*\*\*\*FR-40 Approved with 6000 ONLY

**⚠ WARNING ! See warnings on inside back cover.**

# 3M™ Breathe Easy™ Belt-Mounted PAPR System with BP-17IS NiCd Battery (Intrinsically Safe)\*\* — Product Matrix

## Features

- Good for the following industries: Abatement, Nuclear Utilities, Smelting, Lead Reclamation, Pharmaceutical, Foundry and Steel, Welding.
- Can be used in environments where intrinsic safety\*\* is needed.



## Footnotes

\* BE-17 in combination with BP-17IS battery approved with P3 only  
 \*\* The Breathe Easy™ Turbo PAPR with BP-17IS battery pack has been tested and classified for intrinsic safety ("Exia") by Underwriters Laboratory (UL) for use in the following Division I locations: Class I, Group D; Class II, Groups E, F, G; and Class III. Temperature code "T3".



## 3M™ Airstream™ Helmet-Mounted Powered Air Purifying Respirators

Helmet-mounted PAPRs provide all the features of powered air purifying respirators: increased wearer comfort, cooling, no fit test requirements, compatibility with glasses and can help increase wearer productivity without the need to wear a motorized blower unit at the waist. The following systems are ideally suited for mining, smelting, foundry and metal working.



### 3M™ Airstream™ Helmet-Mounted PAPR AS-400LBC

- Eight-hour battery
- Intrinsically safe
- Lightweight and well-balanced
- High efficiency filter
- Hardhat approved
- Includes new higher airflow motor



### 3M™ Airstream™ Helmet-Mounted PAPR AS-600LBC

- Miner's model
- Eight-hour battery
- Intrinsically safe
- Lightweight and well-balanced
- High efficiency filter
- Hardhat approved
- Includes new higher airflow motor and anti-fog/anti-scratch lens

## 3M™ Face-Mounted PAPRs



### 3M™ Powerflow™ Face-Mounted Powered Air Purifying Respirator 6800 PF (Medium) and 6900 PF (Large)

Face-mounted PAPRs provide increased cooling, wearer comfort and can help improve productivity. The product is ideally designed for abatement and remediation work. Approved for use with high efficiency particulate filter only.

# 3M™ Supplied Air Respirators — Product Matrix

3M™ Supplied Air Respirators are designed to deliver clean air to the worker. The air\* can be supplied from a high pressure compressor, low-pressure pumps, or cylinders (bottled air).

Supplied air respirators offer many advantages over traditional respiratory protection including comfort and protection.

## Features

- Cool or heat incoming air
- Fit testing on required on tight-fitting facepieces
- Low maintenance

\*It is the employer's responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1-1997 in the U.S. In Canada refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

## Dual Airline, Supplied-Air, Tight-Fitting Facepieces

**Facepieces**



6000PD Series Full Facepiece  
Note: Use alternate facepiece kit W3337 (not shown)



7800S\*\* Full Facepiece



6000 Series Full Facepiece



6000DIN Series Full Facepiece



7000 Series Half Facepiece



6000 Series Half Facepiece

**6000 Series Full Facepiece (S, M, L)  
AAD#: 07138; 07139; 07140**

**6000 Series Half Facepiece (S, M, L)  
AAD#: 07024; 07025; 07026**

**Adapter Kits**



W-3232, W-3217, W-3229, W-3238, W-3231, 7890

**Standard Kits**



Back-Mounted Adapter Kits



Front-Mounted Adapter Kits

**Combination Kits**



Combination Back-Mounted Adapter Kits



Combination Front-Mounted Adapter Kits

SA-2000 (High Pressure) SA-1000 (High Pressure) SA-2100 (High Pressure) SA-1100 (High Pressure)  
SA-2000LP (Low Pressure) SA-1000LP (Low Pressure) SA-2100LP (Low Pressure) SA-1100LP (Low Pressure)

**Supplied Air Hose**



W-9435  
3/8" High Pressure Hose (25, 50, or 100 ft.)  
**25 ft. #07010**  
**50 ft. #07011**  
**100 ft. #07012**




W-2929  
3/8" High Pressure Hose (25, 50, or 100 ft.)




W-3020  
1/2" Low Pressure Hose (25, 50, or 100 ft.)  
**25 ft. #07033**  
**50 ft. #07034**  
**100 ft. #07035**


**Portable Air Purification Panels**




256-02-00 (50 cfm) with CO Filtration and Monitor



256-02-01 (100 cfm) with CO Monitor



W-2806 (50 cfm) without CO Monitor  
**#07006**



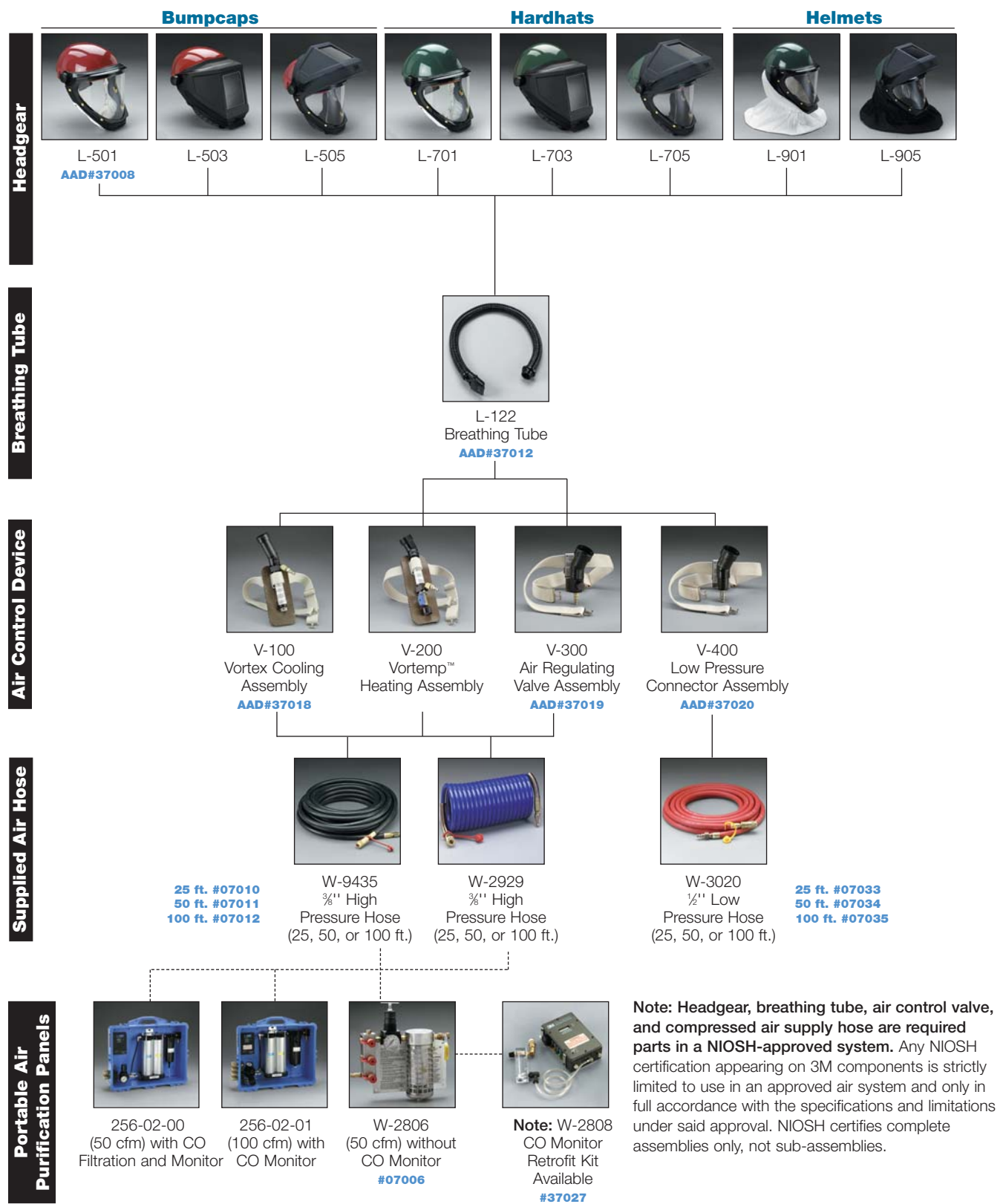
**Note: W-2808 CO Monitor Retrofit Kit Available #37027**

\*\* Clip-on 3M™ Welding Shield also available.

3M Automotive Aftermarket Division (AAD) Product Numbers are found in blue type on select products

**WARNING ! See warnings on inside back cover.**

# 3M™ Supplied Air\* Respirators — Product Matrix



**Note:** Headgear, breathing tube, air control valve, and compressed air supply hose are required parts in a NIOSH-approved system. Any NIOSH certification appearing on 3M components is strictly limited to use in an approved air system and only in full accordance with the specifications and limitations under said approval. NIOSH certifies complete assemblies only, not sub-assemblies.

\*It is the employer's responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1-1997 in the U.S. In Canada refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

3M Automotive Aftermarket Division (AAD) Product Numbers are found in blue type on select products

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# 3M™ Supplied Air\* Respirators — Product Matrix



\*It is the employer's responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1-1997 in the U.S. In Canada refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

3M Automotive Aftermarket Division (AAD) Product Numbers are found in blue type on select products

# 3M™ Full Facepiece Respirators for Powered Air and Supplied Air — Product Matrix

## 6000 Series

## 7000 Series

Headgear



6700 (S)  
6800 (M)  
6900 (L)



6700DIN (S)  
6800DIN (M)  
6900DIN (L)



6700PD (S)  
6800PD (M)  
6900PD (L)



7800S (S)\*  
7800S (M)\*  
7800S (L)\*



7800S-AM (S)  
7800S-AM (M)  
7800S-AM (L)

Powered Air Purifying



Powerflow™ Face-Mounted PAPR



GVP PAPR



Breathe Easy™ PAPR



GVP PAPR

Supplied Air



Dual Airline  
Supplied Air



Dual Airline  
Supplied Air



Supplied Air



Pressure Demand  
Supplied Air



Dual Airline  
Supplied Air



Supplied Air



Pressure Demand  
Supplied Air

\* Clip-on 3M™ Welding Shield also available.

**WARNING ! See warnings on inside back cover.**

# 3M Solutions for First Responders



We don't know what the next emergency will be or when or where it will occur. 3M products and services are a vital component of homeland security preparedness and operations all around the world. We supply a wide variety of products and services including specialized respirators for Chemical, Biological, Radiological, Nuclear (CBRN) applications and respirators for cleanup.

Being alert, well-trained and well-equipped is the best policy and the best defense.

## 3M™ Breathe Easy™ (BE) 10 Butyl Rubber Hood Systems



- The lightweight butyl rubber hood helps provide protection, excellent mobility and visibility
- Butyl rubber meets MIL-C-51251A for resistance to chemical agents
- Provides a continuous flow of filtered air
- The belt-mounted power unit is lightweight and comfortable
- Can be used with rechargeable NiMH battery or disposable lithium battery

- The hood can be worn with facial hair and glasses\*\*
- No fit testing is required prior to wearing a hood
- For use with the 3M™ Cartridge FR-57
- Approximate weight is 8 lbs.

\*\* Providing the facial hair does not protrude under the faceseal or shroud.

## 3M™ Full Facepiece Respirator 6000DIN, is an Ideal Respirator for Both Negative and Positive Pressure Applications

Selecting the right products for first responders is a difficult and challenging task. In addition to all the training required, first response personnel must be provided with the best available products to help protect them from the many hazards encountered in performing their jobs. 3M offers solutions.

With the recent events in the U.S. and around the world, 3M has launched a program that enhances our overall quality and adds to our product line. 3M is now able to provide the ultimate in quality in an expanded line of personal safety products... the products that deliver the confidence and protection that are needed by first response personnel.

### For Negative Pressure

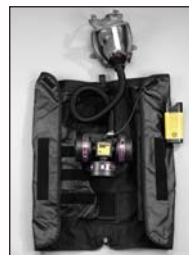


As a negative pressure system, the 6000DIN series full facepiece can be used with 3M™ Canister CP3N for tear gas agents and 3M™ Cartridge FR-64 for most military and industrial materials.

- Can be converted for use with other industrial 3M™ Filters and Cartridges

- Available in small, medium and large sizes
- Comfortable, lightweight
- Flexible and durable silicone faceseal
- Provides a wide field of vision
- Easy to adjust head straps

### For Positive Pressure



This is a Rapid Response Powered Air System (RRPAS) where the components are stored in a unique carrying bag that converts into a vest with the PAPR in place and ready for use with the 3M™ Canister FR-40 and 3M™ Cartridge FR-57.

- Provides exceptional comfort and mobility

- Easy to don and doff
- Hook and loop fasteners allow fast and easy adjustment to individual sizes
- The power unit provides continuous flow of filtered air
- Can be used with rechargeable NiMH battery or disposable lithium battery
- Approximate weight is 10 lbs.
- Also available as belt-mounted PAPR. For component information, call customer service at 1-800-752-3623.

**WARNING ! See warnings on inside back cover.**

# 3M Solutions for First Responders

## 3M™ Air-Mate™ High Efficiency Powered Air Purifying Respirator



Air-Mate™ systems incorporate the blower, filter and battery into a compact and lightweight belt-mounted unit for respiratory protection against airborne particulates. These respirators are used extensively in hospitals and in public health applications by

health care workers.

- Can be used with either lightweight head cover or hood\* made of Tychem®QC. The head cover/hood gives the user a wide field of vision and directs positive airflow into the breathing zone.
- The breathing tube connects the blower unit to the head cover/hood.
- The blower unit is a belt-mounted, lightweight package that combines the filter, battery and motor. It pushes air through the filter and breathing tube to the wearer's head cover/hood.
- Replacement filters are High Efficiency (HE) type with a 99.97% efficiency.
- Can be worn with facial hair and glasses. Facial hair must not interfere with faceseal.
- No fit testing is required prior to wearing.

\* For use up to 1000 x PEL for hoods and 25 x PEL for head covers or applicable OSHA or other government exposure limits, whichever is lower.

## NIOSH's CBRN Standard

3M now offers two products, 3M™ Full Facepieces FR-M40B and FR-7800B, that meet NIOSH's Chemical, Biological, Radiological, Nuclear (CBRN) Standard for full facepiece air purifying respirators. They have been tested and certified by NIOSH for use against many warfare agents including sarin and sulfur mustard as well as many industrial chemicals. They also meet the P100 particulate efficiency standard making them versatile, effective and reliable for handling the kinds of emergencies that are faced by homeland security, military and law enforcement personnel.

## 3M™ Full Facepiece FR-M40B



The M-40 full facepiece has been used for years by U.S. Armed Forces all around the world. It has been modified by 3M for easier breathing and is now available for CBRN applications.

The facepiece with 3M™ Canister FR-15-CBRN or 3M™ Canister CP3N puts 3M at the forefront of innovative products

for personal safety.

- Soft silicone faceseal material means a better fit and increased wearer comfort.
- Assembled with second skin and eyepiece outserts in place. Just attach the FR-15-CBRN canister and you have a NIOSH CBRN-approved system (TC-146-0271).
- Also NIOSH-approved with CP3N canister for use against CS, CN and as a P100 filter (TC-14G-0251 Standard) in riot conditions, including those with teargas.
- Two integral speaking diaphragms help provide clearer communications.
- Butyl rubber second skin provides enhanced permeation protection, which means greater user security.
- Dual ocular lens for enhanced personnel performance and security.
- Patented filtration technology used in our canister results in the optimum combination of easy breathing, lighter weight, service life and general comfort.
- Canisters have a shelf life of five years.
- Available with an optional quick doff hood.

## 3M™ Full Facepiece FR-7800B



This product was designed specifically for homeland security, military and law enforcement personnel and features a low-profile design to help improve comfort. The facepiece is certified by NIOSH for CBRN applications when used with 3M™ Canister FR-15-CBRN. This product positions 3M as one of the leaders in innovative products

for personal safety.

- NIOSH-approved with 3M™ Canister CP3N for use against CS, CN and as a P100 filter (TC-14G-0251) in riot conditions, including those with teargas.
- Lens meets ANSI Z87+ standard, providing high impact protection. This facepiece can be used as primary eye protection.
- Lens has optical correction promoting no left-to-right visual distortion.
- Butyl rubber seal to help resist permeation of warfare agents.
- Newly designed exhalation valve cover to help protect the valve against chemical agents.

# 3M Hearing Protection



3M offers a wide variety of products to help reduce noise exposure. A full line of comfortable, easy-to-use hearing protectors, including ear plugs, foam ear plug dispensers, banded hearing protectors and ear muffs are available.

## 3M™ Ear Plugs and Dispensers

### Soft Foam Ear Plugs 1120



Soft foam ear plugs with a patented articulated shape for improved fit. New softer formulation for improved comfort. Can be combined with ear muffs for additional protection. Noise Reduction

Rating (NRR) 28 dB\*

### Corded Soft Foam Ear Plugs 1130

Soft braided cord for convenience. Soft foam ear plugs with a patented articulated shape for improved fit. New softer formulation for improved comfort. Can be combined with ear muffs for additional protection. NRR 28 dB\*

### Foam Ear Plugs 1100



Soft, comfortable and unobtrusive ear protectors.

### Corded Foam Ear Plugs 1110

Foam ear plugs are also available with a cord that drapes around the neck, enabling workers to remove and reinsert plugs repeatedly during the work day. NRR 29 dB\*

### Foam Ear Plugs 1100-R Soft Foam Ear Plugs 1120-R/37152

Bulk-packaged foam ear plugs for use in 3M™ Ear Plug Dispenser models 1100-DP and 1120-DP. 500 pair of ear plugs per bag, 4 bags per case. The low cost alternative to packaged ear plugs.

### Foam Ear Plug Dispenser Assembly 1100-DP

### Soft Foam Ear Plug Dispenser Assembly 1120 DP/37151



Durable, lightweight, refillable dispenser mounts easily on the wall wherever protection from loud sounds is needed. Unique design helps keep

ear plugs flowing freely. Includes one dispenser, wall mounting bracket (mounting screws not included), ear plug catch tray, and 2 bags of ear plugs (500 pair of ear plugs per bag) for refilling the dispenser. 1100-DP contains 3M™ Foam Ear Plugs model 1100. 1120-DP contains 3M™ Soft Foam Ear Plugs model 1120. Holds up to 700 pair of ear plugs so it can be refilled before it's empty.

### Ear Plug Dispenser Base DSP-B/37153

Sturdy optional base holds dispenser securely for use on tables, benches and other flat surfaces.

**WARNING ! See warnings on inside back cover.**

# 3M™ Hearing Protection

## 3M™ Reusable Ear Plugs



### Reusable Ear Plugs 1260

Comfortable and dependable hearing protection. Perfect for everyday use in a wide variety of industrial settings. Pre-molded for easy insertion into the ear without rolling. Noise Reduction Rating (NRR) 24 dB\*



### Corded Reusable Ear Plugs 1270

#### Corded Reusable Ear Plugs with Carrying Case 1271

Reusable ear plugs connected to a soft, braided cord so workers can remove and

reinsert ear plugs repeatedly during the work day. Also available with storage case (1271) that helps keep plugs clean and protected. NRR 24 dB\*

## 3M™ Banded Hearing Protector



### Banded Hearing Protector 1310

#### Replacement Pads 1311

Great option for workers who need intermittent hearing protection when going in and out of loud work

environments. NRR 21 dB\* when band is worn behind the head and 20 dB\* when band is worn under the chin.

## 3M™ Ear Muffs



### General Purpose Ear Muffs 1435

Roomy, durable ear cups provide reliable protection for everyday use. The lightweight design and flexible headband provide easy fit and comfort for worker hearing protection. NRR 23 dB\*



### Padded Ear Muffs 1440

These ear muffs feature multi-position ear cups, contoured ear cushions, a soft padded headband for extra comfort, and a sliding tension adjustment system to help maintain a good fit. NRR 24 dB\*



### Hardhat Mounted 1450

Can be attached to a wide variety of hardhats without any additional adapters. Combines comfort and convenience. NRR 23 dB\*



### Low Profile Ear Muffs 1425

#### Industrial Pack/R-1425-ES Retail Pack

Lightweight, economical ear muffs designed for comfort and durability in most work environments. NRR 22 dB\*



### Three Position Ear Muffs 1427

#### Industrial Pack/R-1427-ES Retail Pack

A combination of outstanding performance and remarkable versatility. The rotating headband and adjustable head strap make it easy to obtain a secure fit in any of three different positions. Recommended for high noise situations (up to 100 dBA TWA). NRR 27 dB\* when headband is worn over or behind the head and NRR 26 dB\* when headband is worn under the chin.

\* Research suggests that the Noise Reduction Rating (NRR) may overestimate the hearing protection by hearing protectors during typical use. 3M recommends reducing the NRR by 50% for estimating the amount of noise reduction provided.

# 3M Head, Eye and Face Protection



3M™ Head Protection products are lightweight and comfortable. 3M™ Hardhats meet the requirements of ANSI Z89.1-2003, Type I, Class C, E, and G\*.

3M™ Protective Eyewear is available in many styles and configurations. Lens options available include clear, amber, smoke and mirrored. Stylish, wrap-around designs help provide side protection. All of these products meet the high impact requirements of ANSI Z87.1-2003. They feature durable, hard-coated, polycarbonate lenses that provide reduction of UV radiation by 99%.

## 3M™ Hardhats



### Omega II™ Hardhats 190X Standard Suspension

- Slide sizing adjustment
- Lightweight, well-balanced design
- Six-point nylon suspension
- Colors: white, yellow, orange, red, or blue



### Omega II™ Hardhats 191X Ratchet Suspension

- Soft, removable brow pad
- No need to remove hat to adjust sizing
- Six-point woven nylon suspension for comfort
- Colors: white, yellow, orange, red, or blue



### Hardhat 192X

- Economical
- Six-point polyethylene suspension
- Slide sizing adjustment
- Colors: white, yellow, orange, red, or blue

## 3M™ Bumpcaps



### Bumpcap 180X

- Use for reducing minor head bumps and scrapes
- Recommended when hardhats are not required\*
- Colors: black or white

## 3M™ Faceshield



### Faceshield Kit 1631

- Uses replaceable lens for clearer vision
- Cam-lock holds faceshield in place
- Slide sizing adjustment
- Helps provide additional eye and face protection.\*\*

\* 3M™ Bumpcap 1801 and 1803 do not meet the requirements of ANSI Z89.1-2003 and do not protect against impact from falling or glancing objects.

\*\* Must be used with safety spectacles or goggles where protective eyewear is required.

# 3M™ Head, Eye and Face Protection

## 3M™ Protective Eyewear



### Protective Eyewear 170X

- Lightweight, comfortable
- Low-profile, frameless design
- Lens: clear or smoke



### Protective Eyewear 175X

- Lightweight, contemporary-style frame
- Vinyl nose cushion
- Multiple frame and lens options
- 3M logo



### Protective Eyewear 171X

- Lightweight, comfortable
- 4 position adjustable temples
- Lens: clear or smoke



### Protective Eyewear 1760

- Lightweight, contemporary-style frame
- Vinyl nose cushion
- Clear frame and lens
- 3M logo



### Protective Eyewear 172X

- Non-slip rubber head grip
- Vinyl nose cushion
- Five-position temple adjustment
- Lens: clear, mirrored, or amber



### Visitor Specs Protective Eyewear 1611

- Designed for short-term use
- Can be worn over prescription eyewear or worn alone



### Protective Eyewear 173X

- One-piece wrap-around design
- Four-position temple adjustment
- Comfortable vinyl nose pad
- Lens: clear or amber



### Safety Goggles 1620, Perforated

- General use goggles
- Soft and comfortable
- Not for splash protection or dust hazards



### Protective Eyewear 174X

- Form-fitting design
- Vinyl nose cushion
- Adjustable temples with metal core
- Lens: clear, mirrored or amber



### Safety Goggles 1621, for Splash

- Pliable vinyl frames
- Helps reduce exposure to splash and dust hazards
- Indirect vents

# 3M Speedglas™ Auto-Darkening Filters (ADFs) and Helmets



## Safety Products That Help Increase Welding Performance

Now welders can see their work at comfortable light levels, with eye and face protection. Speedglas™ Auto-Darkening Filters from 3M turn dark the moment an arc is struck and return to light state (shade 3) again when welding stops, while maintaining UV/IR protection.

Auto-darkening helps to eliminate the neck-strain of “helmet nodding” while helping increase the accuracy of electrode placement.

This, in turn, helps reduce the need for grinding and rework. In addition, welders can get into tight, cramped spaces and have a clear view, making extremely awkward welds a lot easier and safer.

**Important:** Welding can create a variety of harmful fumes and gases. When engineering controls are impractical, respirators may be required to help reduce exposures to these airborne welding contaminants.

## Speedglas™



### Constant UV/IR Protection

This component of the filter assembly provides the same continuous UV/IR protection as a traditional shade 13 filter plate (as regulated by USA and Canadian welding safety standards).

**Note:** Because faceshields and welding shields can be raised from the normal position, ANSI Z87.1-2003 states that safety glasses must be used in conjunction with these helmets.



### Welding Helmets That Breathe

The revolutionary Speedglas™ Helmet 9000 from 3M features patented aerodynamic exhaust vents that help to enhance the flow of exhaled air.

**Note:** Exhaust vents are not available on the Speedglas™ Utility Filter and Helmet model.

 **WARNING ! See warnings on inside back cover.**

# 3M™ Speedglas™ Auto-Darkening Filters and Helmets

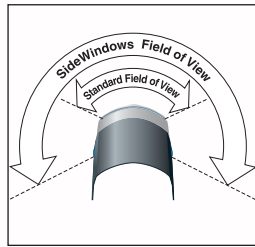


## Helmets with SideWindows Improve Visibility, Safety and Comfort

Speedglas™ SideWindows Helmets from 3M allow for peripheral vision. The two shade 5 side filters increase

the peripheral viewing area by over 100%.

SideWindows filters allow welders to see potentially-hazardous peripheral objects, such as moving equipment, vehicles, and other welders, with the helmet down.



The two side filters are designed solely for peripheral vision; the welder continues to view his own arc through the center (auto-darkening) filter.



## Ideal for Weld Prep/Grinding

The Speedglas™ FlexView System from 3M has a big 4.7 in. x 3.6 in. (120mm x 90mm) clear polycarbonate faceshield that's ideal for precision weld preparation work under a variety of lighting conditions. The user simply lifts up the spring-

mounted Speedglas filter assembly for weld prep. The faceshield meets the ANSI Z87.1-2003 industrial eye and face protection standard.

## Speedglas™



## A Balanced Hardhat for Welders

The Speedglas™ ProTop System from 3M has an exclusive pivot mechanism that “nests” the welding helmet down low over the hardhat, in a balanced, secure position. The lower center-of-gravity helps reduce neck strain.

## 3M™ Welding Helmets – Economy Line



### 3M™ Welding Shield WS-320

- Three variable dark state levels (ADF shades 10-12)
- Two user-selectable sensitivity levels for reliable arc detection
- For stick, MIG and for many TIG welding applications
- Good optical quality for clear view of the workpiece. Shade 4 in the light state.

# 3M™ Speedglas™ Auto-Darkening Filters and Helmets

## 3M™ Speedglas™ Helmets and Auto-Darkening Filters



Utility Filter and Helmet



- Utility Filter
- Helmet and Filter
  - Fixed Shade
  - Available in Shades 10 or 11
  - MIG and Stick



9002D Filter and Helmet



- 9002D Filter
- Dual Shades 10 and 11
  - MIG, Stick, some TIG



9000XF Filter and Helmet



- 9000XF Filter
- Fixed Shade
  - Available in Shades 10, 11, or 12
  - MIG, Stick, some TIG
  - Large Viewing Area
  - Sensitivity Adjustment
  - Solar Panel



9002V Filter and Helmet



- 9002V Filter
- Variable Shade
  - Shades 9 to 13
  - MIG, Stick, TIG
  - 4 Sensitivity Settings
  - 3 Delay Settings



9002X Filter and Helmet



- 9002X Filter
- Variable Shade
  - Shades 9 to 13
  - MIG, Stick, TIG
  - Large Viewing Area
  - 4 Sensitivity Adjustments
  - 3 Delay Settings
  - Solar Panel

### Utility

### 9002D

### 9000XF

### 9002V

### 9002X

Standard Helmet	04-0014-10U	04-0012-15	04-0012-10	04-0012-31	04-0012-21
Standard Helmet with SideWindows	N/A	04-0012-15SW	04-0012-10XSW	04-0012-31SW	04-0012-21SW
ProTop System	N/A	04-0015-15	04-0015-10X	04-0015-31	04-0015-21
ProTop System with SideWindows	N/A	04-0015-15SW	04-0015-10XSW	04-0015-31SW	04-0015-21SW
FlexView System	N/A	04-0016-15	04-0016-10X	04-0016-31	04-0016-21
FlexView System with SideWindows	N/A	04-0016-15SW	04-0016-10XSW	04-0016-31SW	04-0016-21SW
FlexView System with ProTop	N/A	04-1516-15	04-1516-10X	04-1516-31	04-1516-21
FlexView System with ProTop and SideWindows	N/A	04-1516-15SW	04-1516-10XSW	04-1516-31SW	04-1516-21SW

**WARNING ! See warnings on inside back cover.**

# 3M Speedglas™ with Adflo™ Eye, Face and Respiratory Protection



Are your employees working in exhausting, hard-to-breathe-in environments? Let them try one of our many positive pressure systems for just a couple of hours. That's all it takes to realize how comfortable work can be. Comfort can help lead to more work time.



## 3M™ Speedglas™ FlexView with Adflo™ System for Welding and Weld Prep/Grinding

The FlexView system combines eye and face impact protection (ANSI Z87.1-2003) (for both welding and non-welding

activities) with a slim, lightweight, powered air purifying respirator. For chipping, grinding, or preparation, the user simply lifts up the spring-mounted Speedglas filter assembly. The spring holds the auto-darkening filter securely on top of the helmet, giving the welder a clear view through the clear polycarbonate faceshield that meets the high impact test requirements of ANSI Z87.1-2003.

**Note:** Not for paint spraying of flammable substances, or where intrinsic safety is required.

**Note:** Because faceshields and welding shields can be raised from the normal position, ANSI Z87.1-2003 states that safety glasses must be used in conjunction with these respirators.



## 3M™ Speedglas™ Helmet 9000 HWR with Adflo™ System Auto-Darkening Filters (ADF's) with Respiratory Protection for Welding

We've reinvented the powered air-purifying

respirator (PAPR) for welders. The result is 3M™ Speedglas™ with Adflo™ System: a lightweight, compact, all-in-one system. Its exclusive "stackable" configuration means that the Adflo high efficiency (HE) particulate filter can be combined with a chemical cartridge for additional protection.

# 3M™ Speedglas™ with Adflo™ Eye, Face and Respiratory Protection

Adflo™ System	9002D	9000XF	9002V	9002X
(HE) with 9000 HWR Helmet	15-1101-15	15-1101-10X	15-1101-31	15-1101-21
(HE) with 9000 HWR Helmet and SideWindows	15-1101-15SW	15-1101-10SW	15-1101-31SW	15-1101-21SW
(HE) with FlexView System Helmet	16-1101-15	16-1101-10X	16-1101-31	16-1101-21
(HE) with FlexView System Helmet and SideWindows	16-1101-15SW	16-1101-10SW	16-1101-31SW	16-1101-21SW
(HE + OV/SD/CL/HC) with 9000 HWR Helmet	15-3301-15	15-3301-10X	15-3301-31	15-3301-21
(HE + OV/SD/CL/HC) with 9000 HWR Helmet and SideWindows	15-3301-15SW	15-3301-10SW	15-3301-31SW	15-3301-21SW
(HE + OV/SD/CL/HC) with FlexView System Helmet	16-3301-15	16-3301-10X	16-3301-31	16-3301-21
(HE + OV/SD/CL/HC) with FlexView System Helmet and SideWindows	16-3301-15SW	16-3301-10SW	16-3301-31SW	16-3301-21SW



## 3M™ Fresh-air II Supplied Air System with 3M™ Speedglas™ Helmet 9000 HWR

The NIOSH-approved supplied air (SA) 9000 system provides respiratory protection from airborne particulates and gases.

The lightweight, belt-mounted valves permit the welder to adjust the temperature of the air entering the headpiece, making it ideal for very hot or strenuous jobs.



- Cool-air valve permits welder to lower the temperature of the supplied air by up to 45°F (25°C).
- Temp-air valve allows either cooling or warming of the supplied air ±45°F from the supplied air temperature.

Valve Model	CFM Required	CFM Delivered	Pressure Range (psig)	Max. # of Hoses/Length*
Cool-air	12-25	6-15	70-105	4 hoses/100'
Temp-air	12-25	6-15	85-110	4 hoses/100'**

\*Indicates maximum number of hoses and maximum total length.

\*\*Temp-air valve is approved for use with breather hose only.

**Note:** Final determination of respirator applicability and filter selection must be made by an on-site safety specialist or industrial hygienist.

**Note:** Because faceshields and welding shields can be raised from the normal position ANSI Z87.1-2003 states that safety glasses must be used in conjunction with these respirators.

**WARNING ! See warnings on inside back cover.**

# 3M™ Speedglas™ with Supplied Air Respiratory Protection

3M™ Speedglas™ Systems:	9002D	9000XF	9002V	9002X
Fresh-air II Supplied Air Cool-air (CA) System with 9000 HWR Helmet	14-5701-15	14-5701-10X	14-5701-31	14-5701-21
Fresh-air II Supplied Air Cool-air (CA) System with 9000 HWR Helmet and SideWindows	14-5701-15SW	14-5701-10XSW	14-5701-31SW	14-5701-21SW
Fresh-air II Supplied Air Temp-air (TA) System with 9000 HWR Helmet	14-5801-15	14-5801-10X	14-5801-31	14-5801-21
Fresh-air II Supplied Air Temp-air (TA) System with 9000 HWR Helmet and SideWindows	14-5801-15SW	14-5801-10XSW	14-5801-31SW	14-5801-21SW

## Hardhat Systems for Supplied Air Cool-air and Temp-air Systems can be ordered by purchasing the following parts:

### 1. Helmet Assembly *(choose one from the following)*

- 14-0099-35H** 9000 HWR Helmet with Hardhat
- 14-0099-35HSW** 9000 HWR Helmet with Hardhat and SideWindows

### 2. Breathing Tube **18-0099-63 Breathing Tube, Supplied Air Control Air Valve**

*(choose one from the following)*

- 18-0099-47** Cool-air Valve (CA)
- 18-0099-48** Temp-air Valve (TA)

### 3. Supplied Air Hoses *(choose one from the following)*

- 18-0099-40** 25' Breather Hose, with Couplings
- 18-0099-41** 50' Breather Hose, with Couplings
- 18-0099-42** 100' Breather Hose, with Couplings
- 18-0099-43** 25' NyCoil™ Hose, with Couplings
- 18-0099-44** 50' NyCoil™ Hose, with Couplings
- 18-0099-45** 100' NyCoil™ Hose, with Couplings

### 4. Comfort Belt **18-0099-16**

### 5. Appropriate 3M™ Speedglas™ Auto-Darkening Filter

*(choose one of the following Auto-Darkening Filters)*

- 04-0000-15** 9002D User Selectable Shades 10 and 11
- 04-0000-10X** 9000XF Shade 10
- 04-0000-11X** 9000XF Shade 11
- 04-0000-12X** 9000XF Shade 12
- 04-0000-31** 9002V Filter
- 04-0000-21** 9002X Filter

NyCoil™ hoses can only be used with Cool-Air valve Supplied Air (SA) Systems

# Respiratory Protection for Welding

## Particulate Respirators

For up to 10x applicable exposure limits



## Welding Respirators

For up to 10x applicable exposure limits



Contaminant/ Application	Potential Health Effects from Overexposure <sup>1,2</sup>	8000	8210	8511	8515	8512/ 8212	8514/ 8214	
<b>Particles</b>								
General Dust	Depends on contaminants, includes respiratory irritation	■	■	■	■	■	■	
<b>Metal Fume</b>								
Hexavalent Chromium	Lung cancer, asthma and damage to the nasal epithelia and skin	■	■	■	■	■	■	
Steel/Manganese Alloys	Pneumoconiosis, Siderosis, Central Nervous System effects	■	■	■	■	■	■	
Stainless Steel	Pneumoconiosis, kidney effects, lung irritation, cancer	■	■	■	■	■	■	
Aluminum	Respiratory irritation (due to ozone)	■	■	■	■	■	■	
Galvanized Steel	Metal Fume Fever	■	■	■	■	■	■	
Cadmium	Metal Fume Fever, respiratory irritation, lung cancer, kidney effects							
Lead	Central Nervous System effects, systemic poisoning							
<b>Gases</b>					<b>Respirator recommendation</b>			
Ozone	Respiratory irritation, lung congestion, bronchitis, headache, dry throat						■ <sup>5</sup>	
Carbon Monoxide	Anoxia, Central Nervous System effects							
Carbon Dioxide	Asphyxiation							
Phosgene	Respiratory irritation, anoxia, pulmonary edema							
Oxides of Nitrogen	Respiratory irritation and edema							

1. Documentation of TLVS and BEIS, American Conference of Governmental Industrial Hygienists, 7th. edition, 2004.

2. Clayton, G.D., Clayton, F.E. Patty's Industrial Hygiene and Toxicology. Vol II New York. John Wiley and Sons Inc., 1994.

3. Dual-mode head harness design adjusts easily so that the user has the option of wearing the respirator in either traditional or drop-down mode.

4. Other facepieces are available. Please see our website [www.3M.com/OccSafety](http://www.3M.com/OccSafety), [www.Speedglas.com](http://www.Speedglas.com) or call 1-800-896-4223.

5. 3M recommended for applications where ozone and nuisance level organic vapors may be present. 3M recommended for ozone protection up to 10 times the OSHA PEL or applicable government occupational exposure limits, whichever is lower. Not NIOSH approved for use against ozone. 3M recommended for relief from nuisance levels of organic vapors. Nuisance level organic vapors refer to concentrations not exceeding the OSHA PEL, or applicable government occupational exposure limits whichever is lower. Do not use when concentrations of contaminants are immediately dangerous to life and health or are unknown.

\*Clip-on 3M™ Welding Shield is also available.

**WARNING ! See warnings on inside back cover.**



# 3M Sorbents



3M™ Sorbents are designed with the *total* cost in mind. By maximizing sorbent capacity, labor, disposal and product, your purchases are minimized—making 3M sorbents the economical choice.

3M sorbent products are designed to sorb a variety of maintenance fluids and lubricants, oil and petroleum-based liquids, a wide range of acids, bases, coolants and other hazardous fluids.

They are lightweight and versatile, and take just minutes to put in place. Sorbents are available in a wide variety of configurations so you can get at the source of the leak or spill quickly.

## Maintenance Sorbents



3M™ Maintenance Sorbents are ideal for plant maintenance.

- Versatile
- Takes just minutes to put in place
- Easier cleanup as compared to granules

## Petroleum Sorbents



3M™ Petroleum Sorbents are used extensively for controlling, cleaning up, and recovering oil and petroleum-based liquids from effluent discharge, streams, ponds, lakes, rivers, and other bodies of water.

- Great for in-plant spills under leaking equipment and machinery
- Static resistant petroleum sorbents are also available

## Chemical Sorbents



3M™ Chemical Sorbents are powerful enough to handle acids (including hydrofluoric acid), bases, coolants, and most other hazardous fluids.

- Safer choice because they resist reactions with most hazardous chemicals
- Will also sorb petroleum-based fluids, helping reduce storage costs by eliminating the need to stock several different sorbent types for emergency response

## Chemical and Petroleum Spill Kits and Response Packs



3M™ Chemical Folded Sorbent Spill Kits are perfect for emergency response flexibility. With all the features of a 3M folded sorbent, they can be used with most hazardous liquids.

**⚠ WARNING ! See warnings on inside back cover.**

# 3M Software and Training



## Health and Safety Software Library

The 3M™ Health and Safety Software, 3M™ Select Software, and 3M™ Service Life Software libraries are designed to not only help you choose the right type of respirator, but also estimate the service life of 3M™ Respiratory Chemical Cartridges. See them on our website at: [3M.com/OccSafety](http://3M.com/OccSafety).

## Fitting Instruction Videos, Training Programs and Materials

3M offers many programs, materials and services that enable you to administer a respiratory protection program that helps you meet OSHA requirements. We can assist you and your employees by emphasizing the importance of respirator selection, use, proper fitting procedures, and maintenance. 3M offers several videos (some available in Spanish) that cover the selection and use of our respirators. Additionally, 3M provides posters with easy-to-follow instructions so that important information is readily available to all employees.

## Fit Test Apparatuses and Accessories

3M equipment and procedures provide a simple, direct way to help meet OSHA qualitative fit testing requirements. These products can be used with any particulate or gas/vapor respirator with a particulate prefilter to test face-to-respirator seal. The equipment helps satisfy respiratory program requirements, and is easy to use during respiratory training.

The fit test works by spraying a sweet or bitter solution into the hood environment. If the wearer does not detect the test agent's taste, an acceptable fit has been demonstrated.

## Respiratory Protection Courses

Respiratory Protection is a comprehensive training course that provides information for effectively administering all or part of a respiratory protection program. This course is unique among those offered by respirator manufacturers in that it is based on the technical and regulatory aspects of a sound respirator program, rather than specific products. Locations and registration information are available on our website at: [3M.com/OccSafety](http://3M.com/OccSafety).

## Quantitative Fit Test Respirators

3M™ Quantitative Fit Test Respirators are products that provide a simple, direct way to help meet OSHA quantitative fit testing requirements. They help satisfy OSHA respiratory protection program requirements and are easily used during respirator training.

**Note:** These devices are to be used exclusively for quantitative fit testing. Do not use for respiratory protection.

# 3M Health and Safety Services



3M facilitates convenient products and services to help you achieve regulatory compliance. Our services are based on certain OSHA regulatory compliance requirements, including on-site fit testing and customized Respiratory Protection e-Tools to help optimize your compliance testing and training.

## Regulatory Compliance Services Offered:

Respirator Medical Evaluations: On-line • Mail-In

Respirator Fit Testing: Qualitative • Quantitative

Respiratory Protection Training: On-line

## Benefits

### Convenience

- Evaluation can be used with all brands and types of respirators
- Evaluations can be completed using any computer with internet access

### Speed and Productivity

- Most employees do not need to leave the work site
- Employees and employers receive immediate notification of the results
- Clearance letters will be electronically mailed or faxed to the employer, and mailed to the employee

### Consistency and Quality

- All employees are evaluated using the same expanded OSHA Respirator Medical Questionnaire
- Board-certified, occupational medicine physicians complete the reviews and, where needed, make recommendations for further medical testing

## On-Line Respirator Medical Evaluations

This easy-to-use questionnaire helps establish the worker's clearance level for using a specific respirator in your work conditions. It can be completed in 15-20 minutes using any computer with internet access, and is available every day, any time, to fit your employees' schedules. Any respirator brand can be used. You'll receive immediate notification of clearance as well as on-line recordkeeping to track employee status. Available in English and Spanish.

## Respiratory Protection e-Training

This is an on-line, interactive service that helps train your employees in the proper use and maintenance of different types of 3M respirators, including Powered Air Purifying Respirators (PAPRs). This training, which utilizes the latest techniques to maximize learning, will take about 40 minutes. The service is customizable and allows easy access to individual records, curriculum and test results. It is a standardized training method that meets OSHA, NIOSH and ANSI requirements.

## On-Site Respirator Fit Testing Services

This service can help save valuable staff time and help reduce the cost of compliance. 3M technicians will come to your site and can perform both qualitative and quantitative testing that is effective for all brands of respirators. Schedules can be set up to accommodate your multiple shifts and crews. Technicians will document results and provide summary reports.

[www.respexam.com](http://www.respexam.com)

*For additional information on these services, please visit [www.respexam.com](http://www.respexam.com), call 1-800-383-3393 or contact your local 3M sales representative.*

**⚠ WARNING ! See warnings on inside back cover.**



### ⚠WARNING

#### **Filtering Facepiece Respirators, Half and Full Facepiece Respirators (See pages 2-9.)**

These respirators help reduce exposure to certain airborne contaminants. **Misuse may result in sickness or death.** For proper use, see user instructions in package, supervisor, or contact 3M OH&ESD Technical Service at 1-800-243-4630. In Canada, call 1-800-267-4414.

### ⚠WARNING

#### **Air Monitoring Systems. (See page 10.)**

**Do Not Use For:** • Ammonia, Carbon Monoxide; Ethylene Oxide<sup>1</sup>; Formaldehyde<sup>2</sup>; Hydrogen Sulfide; Isocyanates; Methane; Ethane; Propane; Methyl Alcohol (Methanol); Methyl Chloride; Methyl, Dimethyl, Trimethyl Amines; Organic Solids; Sulfur Dioxide

- Reactive or polar compounds such as amines, phenols, aldehydes and low molecular weight alcohols
- Extremely low concentrations within a sampling period of less than 8 hours
- Particulates

<sup>1</sup> Ethylene Oxide can be monitored using 3M™ Ethylene Oxide Monitor. 3550/3551. <sup>2</sup> Formaldehyde can be monitored using 3M™ Formaldehyde Monitor 3720/3721.



### ⚠WARNING

#### **Positive Pressure Respirators (See pages 11-27.)**

These respirators help reduce exposure to certain airborne contaminants. Use of 3M™ Positive Pressure Respirators by untrained or unqualified persons, or use not in accordance with the instructions, may adversely affect product performance and **result in sickness or death.**

Positive pressure respirators are to be used only by qualified persons who are properly trained in their use and maintenance, and only in accordance with their operating and maintenance manuals. Each person using these products must first read and understand the operator's manual. See supervisor for assistance or call 3M Technical Service at 1-800-243-4630. In Canada, call 3M OH&ESD at 1-800-267-4414.

### ⚠WARNING

#### **Hearing Protection Products (See pages 28-29.)**

These hearing protection products help prevent hearing loss against certain noises. To provide proper protection, the hearing protector should be (1) suitable for the job, (2) fitted properly in/on the ear, (3) worn during all times of exposure to noise, and (4) replaced when damaged or otherwise necessary. Failure to fit and use proper hearing protectors according to these instructions will reduce their effectiveness. Failure to wear hearing protectors 100% of the time that you are exposed to hazardous noise may dramatically increase your risk of developing hearing loss. Keep ear plugs away from infants and small children. They may get caught in a child's windpipe. For more information, call 3M OH&ESD Technical Service at 1-800-243-4630. In Canada, call 1-800-267-4414.

### ⚠WARNING

#### **Head Protection Products (See page 30.)**

These hardhats provide limited protection only. **Misuse or failure to follow warnings and instructions may result in serious personal injury or death.** For proper use, see supervisor, read instructions and warnings on the package, or call 3M OH&ESD Technical Service in the USA at 1-800-243-4630. In Canada, call 1-800-267-4414.

Bumpcaps do not provide protection against impact from falling or glancing objects. They do not protect against electrical hazards. Bumpcaps do not meet the requirements of the American National Standard for Industrial Head Protection ANSI Z89.1-2003. When head protection is required, wear a protective hardhat or helmet that meets the requirements of ANSI Z89.1-2003.

### ⚠WARNING

#### **Eye and Face Protection Products (See page 30-31.)**

These eye and face protection products help provide limited eye and face protection against flying particles. **Misuse or failure to follow warnings and instructions may result in serious personal injury, including blindness, or death.** For proper use, see supervisor, read instructions and warnings on the package, or call 3M OH&ESD Technical Service in the USA at 1-800-243-4630. In Canada, call 1-800-267-4414.

### ⚠WARNING

#### **Welding Products (See pages 32-39.)**

These welding safety products must be used only by qualified persons trained in their use and maintenance and only in strict accordance with and adherence to the detailed instructions and precautionary statements provided in the instruction manual which accompanies each product. **Failure to comply with these instructions could result in sickness, serious bodily injury or loss of life.**

For proper use of these products read user instructions and warnings on the package. Any questions concerning proper use should be directed to your supervisor, on-site training specialist, industrial hygienist or 3M Occupational Health and Environmental Safety Division (OH&ESD) Technical Service in the U.S.A. at 1-800-243-4630. In Canada, call 1-800-267-4414.

### ⚠WARNING

#### **Sorbent Products (See page 40.)**

**Failure to properly handle and dispose of sorbents contaminated by hazardous materials can result in serious physical injury or death and/or environmental harm.** For proper handling, consult the Material Safety Data Sheet for the material absorbed, applicable safety and health standards, contact your supervisor, or call 3M.

Check out our website at

**3M.com/OccSafety/WorkerSafety**

**Training and Tools, Where to Buy,  
What's New, MSDS, Tech Bulletins,  
Subscribe to JobHealth Highlights  
and much more!**

# Training Products Services



\* 3M Respirators and Hearing Protection Products –  
Exclusive NASCAR Officially Licensed Products  
\*\* Todd Kluever name and/or likeness used by  
authority of Roush Racing, Livonia, Michigan.

## For More Information

### In U.S.

Technical Assistance 1-800-243-4630  
Customer Care Center 1-800-328-1667

### Internet

[www.3M.com/OccSafety/WorkerSafety](http://www.3M.com/OccSafety/WorkerSafety)

### In Canada

Technical Assistance 1-800-267-4414  
Sales Assistance 1-800-265-1840 ext. 6137

### Internet

[www.3M.com/intl/CA/ohes.html](http://www.3M.com/intl/CA/ohes.html)

## 3M Worldwide, World Class

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