

3M™ Filtering Facepiece Respirators*

	3M™ Health Care Particulate Respirator and Surgical Mask 1860. Minimum 95% filter efficiency. (NIOSH N95 approved). Features a soft inner shell for enhanced comfort. Reduces potential exposure to blood and other body fluids. Meets CDC guidelines for TB exposure control. Not for use in atmospheres containing oil aerosols.
	3M™ Health Care Particulate Respirator and Surgical Mask 1860S. Designed for people with smaller faces. Minimum 95% filter efficiency. (NIOSH N95 approved). Features a soft inner shell for enhanced comfort. Reduces potential exposure to blood and other body fluids. Meets CDC guidelines for TB exposure control. Not for use in atmospheres containing oil aerosols.
	3M™ Particle Respirator 8000, N95. Minimum 95% filter efficiency. This is an economical product that is designed for light-duty or short duration work in dusty environments. Features adjustable noseclip. Not for use in atmospheres containing oil aerosols.
	3M™ Particulate Respirator 8110S, N95. Designed for people with smaller faces. Minimum 95% filter efficiency. Features adjustable noseclip and soft nose foam pad that help provide a custom fit and secure seal. Not for use in atmospheres containing oil aerosols.
	3M™ Particulate Respirator 8210, N95. Minimum 95% filter efficiency. Features adjustable noseclip and soft nose foam pad that help provide a custom fit and secure seal. Not for use in atmospheres containing oil aerosols.
	3M™ Particulate Respirator 8210Plus, N95. Minimum 95% filter efficiency. Comfortable braided straps with staple-free attachment. Not for use in atmospheres containing oil aerosols.
	3M™ Particulate Respirator 8233, N100. Minimum 99.97% filter efficiency. Features adjustable straps, 3M™ Cool Flow™ Exhalation Valve for cool and dry comfort, and face seal. Not for use in atmospheres containing oil aerosols.
	3M™ Particulate Respirator 8271, P95. Minimum 95% filter efficiency. Features M-noseclip, 3M™ Cool Flow™ Exhalation Valve for cool and dry comfort, and face seal.
	3M™ Particulate Respirator 8293, P100. Minimum 99.97% filter efficiency. Features adjustable straps, 3M™ Cool Flow™ Exhalation Valve for cool and dry comfort, and face seal.
	3M™ Particulate Respirator 8511, N95. Minimum 95% filter efficiency. Features M-noseclip, 3M™ Cool Flow™ Exhalation Valve for cool and dry comfort, and face seal. Not for use in atmospheres containing oil aerosols.
	3M™ Particulate Respirator 8577, P95. Minimum 95% filter efficiency. 3M recommended for relief against nuisance level organic vapor.** Features 3M™ Cool Flow™ Exhalation Valve for cool and dry comfort.
	3M™ Particulate Respirator 9210, N95. Minimum 95% filter efficiency. Features unique 3-panel design, soft nose foam pad and advanced electret media. Conforms to a wide range of faces. Folds flat for easy storage and portability. Individually packaged. Not for use in atmospheres containing oil aerosols.
	3M™ Particulate Respirator 9211, N95. Minimum 95% filter efficiency. Features unique 3-panel design, soft nose foam pad, advanced electret media and 3M™ Cool Flow™ Exhalation Valve. Conforms to a wide range of faces. Folds flat for easy storage and portability. Individually packaged. Not for use in atmospheres containing oil aerosols.



Hurricanes Katrina and Rita caused much devastation and hardship.

3M products have always been essential during times of emergencies. The tragedies of the 2005 hurricanes are good examples. 3M products, including the 3M™ Particulate Respirator 8577, were found to be extremely useful and effective for emergency workers during the relief and cleanup stages. Such products helped keep workers safe, more comfortable and allowed them to do their jobs knowing that their 3M respirator was helping protect them from the types of airborne contaminants found in the wake of such disasters.

*These respirators can help reduce inhalation exposures to certain airborne biological particles (e.g. mold, Bacillus anthracis, Mycobacterium tuberculosis, etc.) but cannot eliminate the risk of contracting infection, illness or disease. OSHA and other government agencies have not established safe exposure limits for these contaminants.

**Nuisance levels refer to concentrations below the OSHA PEL/OEL or applicable exposure limits, whichever is lower.



3M™ Full Facepiece Respirator FR-7800B – Reliability And Comfort For CBRN Applications



This product was designed specifically for homeland security personnel and features a low-profile design to help improve comfort.

The facepiece is certified 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.

- Facepiece is NIOSH CBRN-approved with 3M canister FR-15-CBRN (TC-14G-0271).
- Also 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 to minimize left-to-right visual distortion.
- Available in small, medium and large sizes.
- Helps provide security, safety and comfort for the user.
- Butyl rubber seal to help resist permeation of warfare agents.
- Canister can be mounted on either side of the facepiece to help enable weapon sighting.
- Newly designed exhalation valve cover to help protect the valve against chemical agents.



NIOSH's CBRN Standard

3M now offers two full facepiece 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 personnel.

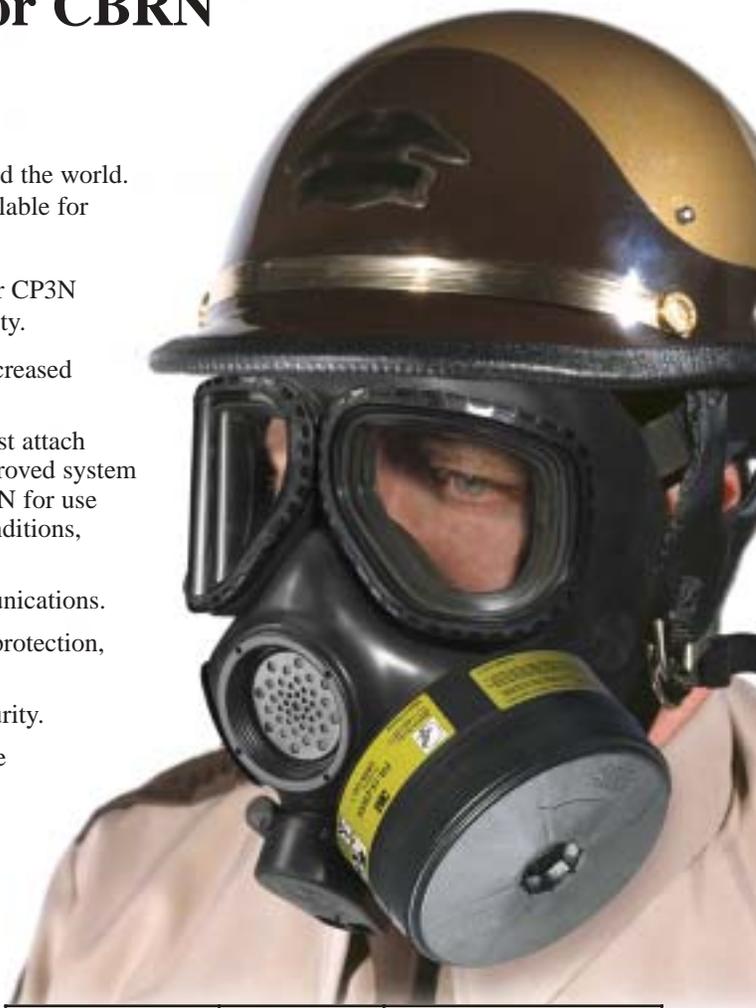


3M™ Full Facepiece Respirator FR-M40B – Exceptional Performance For CBRN Emergency Response

The M-40 full facepiece is used 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 face seal material helps provide a better fit and increased wearer comfort.
- Assembled with second skin and eyepiece outserts in place. Just attach 3M canister FR-15-CBRN and you have a NIOSH CBRN-approved system (TC-14G-0271). Also 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 tear gas.
- Two integral speaking diaphragms help provide clearer communications.
- Butyl rubber second skin helps provide 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.
- Canister can be mounted on either side of the facepiece for easier, more accurate weapon sighting.
- Canister has a shelf life of 5 years.
- Drinking tube connection for use in non-contaminated areas.
- Available with an optional quick doff hood.



The Key Is The Canister

As a “Cap 1” approved canister, the 3M™ Canister FR-15-CBRN is tested by NIOSH to have a minimum test life of 15 minutes against various contaminants at different concentrations. Gas life tests are performed at 25° C; 25 and 80 percent relative humidity; and a flow rate of 64 liters per minute. The canister also has a minimum service life of 5 minutes when tested at a flow rate of 100 liters per minute, 50 percent relative humidity and 25° C for many gases/vapors. Service life in actual use may be shorter or longer depending on many factors including contaminant concentration.

For complete test results, call the 3M Occupational Health and Environmental Safety Division’s Fax On Demand Service at 1-800-646-1655 and request document number 9020.

Agent	Test Concentration (ppm)	Breakthrough Concentration (ppm)
Ammonia	2500	12.5
Cyanogen Chloride	300	2
Cyclohexane ¹	2600	10
Formaldehyde	500	1
Hydrogen Cyanide	940	4.7 ²
Hydrogen Sulfide	1000	5.0
Nitrogen Dioxide	200	1ppm NO ₂ or 25 ppm NO ³
Phosgene	250	1.25
Phosphine	300	0.3
Sulfur Dioxide	1500	5

¹ Cyclohexane is representative of all organic vapors with a vapor pressure less than or equal to cyclohexane.

² Sum of HCN and C.N.

³ Nitrogen Dioxide breakthrough is monitored for both NO₂ and NO. The breakthrough is determined by which chemical, NO₂ or NO, reaches breakthrough first.

For more information please visit 3M web site www.3M.com/OccSafety/TechData. See *Technical Data Bulletin Number 159: Recommended Use of CBRN Full Facepiece Air Purifying Respirators* and *Technical Data Bulletin Number 162: Recommended Use of the 3M™ Canister FR-15-CBRN Against Various Military and Industrial Chemical Agents*.



3M Offers Many Respirator Options For Homeland Security Personnel



3M™ Full Facepiece
6700, 6800, 6900

3M respirators offer comfort, convenience, flexibility and effectiveness...just what you'd expect from an industry leader. Our facepieces with a choice of filters help provide wearers the protection needed for many different emergency situations. These facepieces are available in small, medium and large sizes.



3M™ Half Facepiece
6100, 6200, 6300



3M™ Half Facepiece
7501, 7502, 7503



3M™ Particulate
Filter 2091, P100



3M™ Particulate
Filter 2097, P100*,**
with Nuisance Level
Organic Vapor Relief



3M™ Particulate
Filter 7093, P100

* 3M recommended for ozone protection up to 10 x OSHA PEL.
This product is not NIOSH approved for ozone protection.

** Nuisance level refers to concentrations below the current OSHA PELs.



3M™ Qualitative Fit Test
Apparatus FT-10, Sweet



3M™ Qualitative Fit Test
Apparatus FT-30, Bitter

3M equipment and procedures help provide a simple, direct way to meet OSHA qualitative fit testing requirements. Our fit test 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.

3M fit tests work by spraying either a sweet or bitter solution into the hood environment. If the person being tested does not detect the test agent's taste, an acceptable fit has been demonstrated.



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.

Tychem is a registered trademark of DuPont.

- 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 face seal.
- 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.



Head Cover

(Available in blue and white, regular and large sizes. Look for label indicating no components made from natural rubber latex.)

Hood

(3M is in the process of transitioning to natural rubber latex-free components. Please call Technical Assistance at 1-800-243-4630.)



Breathing Tube



Motor/Blower Unit



Replacement Filter



Optional Vinyl Belt
(To allow for easier decontamination)



3M™ Breathe Easy™ (BE) 10 PAPR With Butyl Rubber Hood



Breathe Easy™ PAPR systems help provide comfortable, efficient powered air protection. The BE-10 system, in combination with the 3M™ Cartridge FR-57, helps protect the wearer against gases, vapors and/or particulates.

- The lightweight butyl rubber hood* helps provide protection, excellent mobility and visibility.
* Contains natural rubber latex.
- Butyl rubber meets MIL-C-51251A for resistance to chemical agents.
- Provides continuous air flow.
- The belt-mounted power unit is lightweight and comfortable.
- Can be used with rechargeable Nickel Metal Hydride (NiMH) battery or disposable Lithium battery.
- The hood can be worn with facial hair and glasses.
- No fit testing is required prior to wearing.
- For use with the cartridge FR-57.
- Approximate weight is 8 lbs.



3M™ RRPAS™ Rapid Response Powered Air Systems

When fast response to an emergency is required, you'll want equipment that is not only effective but easy to transport and to put on so that you can get to the job of helping people faster and more securely. That's exactly what our rapid response systems offer.

3M™ RRPAS™ 6000 Series

- Components are stored in a unique carrying bag that transforms into a vest with the PAPR in place and ready for use.
- Use with 3M™ Canister FR-40 and 3M™ Cartridge FR-57.
- Helps provide exceptional comfort and mobility.
- The vest/bag allows fast and easy donning.
- Easy to use fasteners allow fast adjustment to individual sizes.



A belt-mounted system is available for those who have their own vest or prefer to use without a vest.



3M™ Full Facepiece Respirator 6000DIN Series offers the flexibility for use in either negative or positive pressure applications. It can be used with 3M™ Cartridge CP3N for teargas agents and with 3M™ Cartridge FR-64 for military and industrial materials.



3M™ Air-Mate™ SCBAG™ Self-Contained Breathing Apparatus (SCBA) Is Uniquely Innovative



This SCBA is totally unique with all components stored in a carrying bag that converts into a vest with everything in place and ready to wear.

- Completely portable.
- Can be donned in seconds.
- The lightweight harness has shoulder and back padding for greater comfort.
- Continuous chest size adjustment up to 58" to fit most wearers.
- The vest/bag allows fast and easy donning.
- The vest distributes weight evenly for added comfort.
- Great for confined spaces and emergency use.
- Optional airline connection for extended time usage.
- Hoop-wrapped, 30-minute cylinder is positioned for ideal weight distribution and easy valve access.
- The full facepiece is based on 3M's innovative technologies.
- Lightweight and comfortable to wear.
- Features a quarter-turn pressure-demand valve with first-breath activation.
- Facepiece available in small, medium and large sizes.

