


3M Science.
Applied to Life.™

3M™ Disposable and Reusable
Respirators for Welding

**Breathe easily.
Weld safely.**

Comfortable, low-profile disposable and
reusable respirators compatible with
3M™ Speedglas™ welding helmets.*

 **Speedglas**™

* Since head sizes and welding helmets vary,
we recommend you find the respirator that
is most compatible with your welding helmet.

Real hazards. Real solutions

The respiratory hazards of metalworking are real. Welding fumes swirling around workers can potentially result in health-related issues for the worker. Workers need a respiratory solution that fits securely under welding shields, in order to deliver the appropriate protection for their jobs. From new hires to long-time welders, the protection you provide can affect your worker's health in the future.

3M™ Respirators. Easier breathing ahead.

Whether disposable or reusable, 3M respirators are designed to protect your workers along with a low profile that fits under most welding and grinding shields, including your 3M™ Speedglas™ welding helmet.***

Comfortable protection that is easy to use can help promote safety and compliance during exposure to contaminants.



Low-profile design

Our respirators are created to be compatible with most welding/grinding shields.***

The advanced half facepiece design gives workers a wide field of view.



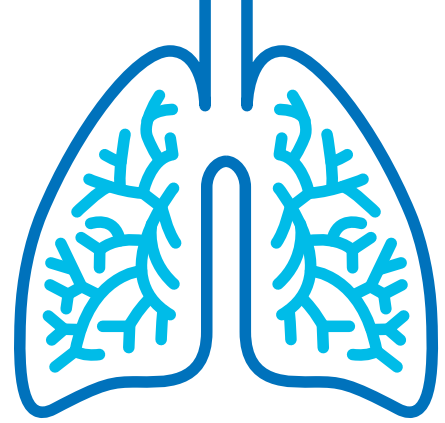
Electrostatically charged microfibers

The stronger the charge, the greater the field of capture. 3M's Advanced Electrostatic Media (AEM) charge means fewer fibers are needed to efficiently capture particles.



Open formation

With AEM, our filters arrange highly charged microfibers in an open formation, allowing for greater passage of air through the media, and ultimately, helping to make breathing easier.



#1 Most Cited Industry
Fabricated metal product manufacturing ranks first in OSHA respiratory protection citations.*

#3 OSHA Recorded Incidents for Manufacturing

Primary metal and metal fabrication combined rank third in number of OSHA recordable incidents within the manufacturing industry.**

Levels of Permissible Manganese Exposure†

PEL
OSHA Permissible Exposure Limit

5.0
mg/m³



TLV®
ACGIH® Threshold Limit Value®

0.02
mg/m³



† NOTE: This is a graphical illustration by 3M based on certain important assumptions; visit 3M.com/respmanganese for more information.

* Occupational Safety and Health Administration. (2015, October). *Industry Profile for OSHA Standard 19100134*. Retrieved October 25, 2016, from https://www.osha.gov/pls/imis/industryprofile.stand?p_size=&p_stand=1910.134&p_state=FEFederal&p_type=3

** U.S. Department of Labor, Bureau of Labor Statistics. (2015, October 29). *Employer-Reported Workplace Injuries and Illnesses - 2014* [Press release]. Bureau of Labor Statistics. Retrieved October 25, 2016, from http://www.bls.gov/news.release/archives/osh_10292015.pdf

*** Since head sizes and welding helmets vary, we recommend you find the respirator that is most compatible with your welding helmet.



Reusable Respirators.

Protection that goes the distance.

Workforces rely on 3M respirators to help them work safely and comfortably until the long shift ends. 6500 features include:

- Quick latch mechanism makes it easy to drop down the respirator without removing head straps.*
- 3M™ Cool Flow™ Exhalation Valve helps reduce heat and moisture to make breathing easier.**
- Low profile half facepiece design offers a wide field of view and compatibility with certain welding and grinding shields.***

The 2297 filter also features electrostatically charged microfibers, an open formation, and 3 layers instead of 5 to make breathing easier while offering the same level of filtration.



3M™ Disposable Welding Respirators.

Comfortable options that work for you.

Whether it's sweeping, sanding, grinding, sawing, bagging, or welding, 3M technologies provide comfortable and convenient protection at a great value. 3M Disposable Welding Respirators feature:

- Buckles provide a personalized fit.****
- Cool flow valve helps to provide easy exhalation and cool comfort.
- Cake resistant media makes breathing easier for longer when exposed to welding fumes.****
- Flame resistance reduces the effect of a spark or flame.
- Some models use carbon loaded media to reduce nuisance level organic vapors and ozone up to 10X exposure limit. This reduces nuisance level acid gases as well.****

Find the fit and protection your workers need with our wide selection of disposable respirators. To help stretch your budget, choose 3M™ Disposable Respirator 8515 Series. This economical option features the adjustable M-Noseclip as well as a braided headband for a more comfortable seal that hits fewer pressure points.

* Available on models 6501QL, 6502QL, and 6503QL.

** Individual respirators' benefits may vary.

*** Since head sizes and welding helmets vary, we recommend you find the respirator that is most compatible with your welding helmet.

**** Available on 3M welding disposable respirators, except the 3M 8515.



3M™ Rugged Comfort Half Facepiece
Reusable Respirator 6500 Series

An easy choice for a tough world.

When shifts are long and conditions are challenging, your workers will appreciate the 3M™ Rugged Comfort Half Facepiece Reusable Respirator 6500 Series. With 3M's Quick Latch drop-down mechanism and Cool Flow™ Valve, respirators are easy-on and easy-off for comfortable protection.



6500 Series. Built for you.

Our half facepiece respirators come with a variety of technologies to make your day easier and more comfortable.

Convenient Quick Latch Drop-Down Mechanism

- Easy on and off as you move in and out of contaminated areas.
- No need to remove hard hats or faceshields when lowering and raising the respirator.



Quick Latch closed

Pull up on latch

Quick Latch open

Pull down on latch

To open Quick Latch: Grasp the latch at chin level and pull up.

To close Quick Latch: Grasp the facepiece with your thumb on the bottom of the facepiece and your first two fingers on top of the latch. Place the facepiece over your nose and mouth while pushing down on the latch.



3M™ Bayonet Connection

Compatible with all 3M™ bayonet-style cartridges and filters.

Comfortable, durable silicone face seal

- 3M's lightest silicone facepiece, the 6500 Respirator Series provides comfort and stability with a soft, stable face seal.
- Resilient silicone material keeps its shape in high-heat environments, which can help extend product life.

Adjustable head harness assembly

- Excellent comfort with three-size adjustable head cradle.
- Long-lasting polyester/spandex straps.

Low-profile design for compatibility

- Compatible with most welding/grinding shields.
- Advanced half facepiece design for a wide field of view.
- Simplified cleaning and maintenance with fewer parts and crevices.

3M™ Cool Flow™ Valve

- Enhanced comfort by reducing heat and moisture build-up.
- Easier breathing with unique valve design.
- Valve cover design directs exhaled breath and moisture downward.

<< 6500 QL Respirator, shown



Built for rugged work environments.

All day comfort.

25%
easier to breathe through

compared to the standard 2000 Series.*

When breathing is easier, so is everything else.

3M™ Particulate Filters are made with material designed to allow greater airflow while maintaining the level of filtration you rely on. The 3M 2200 Series has more advanced filter media and more durable netting construction for a new level of performance.

* Percent change based on the 95% confidence interval for the mean initial pressure drop for 2200 and 2000. The 3M 2291 filter is 26% easier to breathe through than the 3M 2091 filter, and the 3M 2297 filter is 28% easier to breathe through than the 3M 2097 filter.

3M™ Disposable Filtering Facepiece Respirators

A breath of fresh air.

Respirators can't give workers full protection unless they are selected and worn correctly during all exposure times. That's why 3M™ Disposable Filtering Facepiece Respirators include features and technology that enhance user comfort and can help increase wear time.



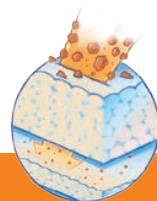
Breathe easier. Featured technologies.

Our unique technologies help you match the right respirator to your environment. **Use the color coding (shown below)** to identify which features are included for each respirator.



3M™ Cool Flow™ Exhalation Valve

One-way valve for easy exhalation and cool comfort



Cake-resistant Filter Media

Long-lasting breathing comfort with layered filter media designed for welding.



Welding Web

Incorporates protective layers, designed to be flame resistant as demonstrated per ASTM D2859-96. (Not a substitute for a faceshield.)

Filter out metal fumes.

Welding and metal pouring respirators all feature the proprietary 3M™ Cool Flow™ Exhalation Valve.



N95 Respirators

8212 (N95)

Long-lasting comfort in tough environments. Features include welding web, cake-resistant filter media, nose foam, adjustable noseclip, and buckle straps. Plus a comfortable foam face seal.



8514 (N95)

A respirator designed for applications where metal fumes are present, including those with ozone* and nuisance level organic vapors.**



8214 (N95) AAD #07187

Shown to the left

A respirator designed for applications where metal fumes are present, including those with ozone* and nuisance level organic vapors.** Plus a comfortable foam face seal.



8515 (N95) AAD #07189

An economical option for welders. Features welding web and braided headbands to help provide a custom and secure seal.



8512 (N95)

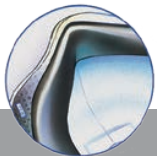
Long-lasting comfort in tough environments. Features include welding web, cake-resistant filter media, nose foam, adjustable noseclip, and buckle straps.



IMPORTANT: All 3M products shown in this brochure must be used in accordance with the OSHA regulations and the user instructions, warnings, and limitations accompanying each product.

* 3M recommended for ozone protection up to 10X OSHA PEL. Not NIOSH approved for ozone.

** 3M recommended for relief against nuisance level organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.



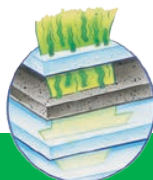
Face Seal

Comfortable, secure fit with a soft face seal that conforms closely to the face.



Adjustable Buckle Straps

Help provide a comfortable seal with an easy tug.



Carbon Filter Material

Greater comfort, more relief from odors, vapors and other gaseous contaminants. For nuisance level relief only.**



Advanced Electrostatic Media

Filter media allows greater air flow while capturing more contaminants in the electrostatically-charged microfibers.

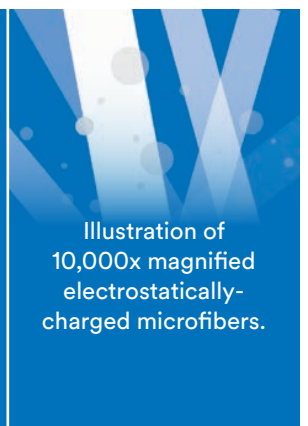


Illustration of 10,000x magnified electrostatically-charged microfibers.

Ordering information.



6501 (SM)
6502 (MED)
6503 (LG)



6501QL (SM)
6502QL (MED)
6503QL (LG)



2297

3M™ Rugged Comfort Half Facepiece Reusable Respirators and Filters				
	SKU (3M ID)	UPC Bill Unit	Prod. #	Description
6500 Facepieces	70071621810	50051131494874	6501	3M™ Rugged Comfort Half Facepiece Reusable Respirator Small, 10/Case
	70071621836	50051131494898	6502	3M™ Rugged Comfort Half Facepiece Reusable Respirator Medium, 10/Case
	70071621851	50051131494911	6503	3M™ Rugged Comfort Half Facepiece Reusable Respirator Large, 10/Case
6500QL Facepieces	70071621828	50051131494881	6501QL	3M™ Rugged Comfort Quick Latch Half Facepiece Reusable Respirator Small, 10/Case
	70071621844	50051131494904	6502QL	3M™ Rugged Comfort Quick Latch Half Facepiece Reusable Respirator Medium, 10/Case
	70071621869	50051131494928	6503QL	3M™ Rugged Comfort Quick Latch Half Facepiece Reusable Respirator Large, 10/Case
2297 Filters	70071533973	50051131171720	2297	3M™ Advanced Particulate Filter 2297, P100 Respiratory Protection, with Nuisance Level Organic Vapor Relief, 100/Case



8515

8212

8214

8512

8514

3M™ Disposable Filtering Facepiece Respirators				
	SKU (3M ID)	UPC Bill Unit	Prod. #	Description
N95 Respirators	70070890028	50051131071891	8515	3M™ Particulate Welding Respirator, N95, 80/Case
	70070708998	50051138541410	8212	3M™ Particulate Welding Respirator, N95, with Faceseal, 80/Case
	70070799534	50051138661927	8214	3M™ Particulate Respirator, N95, with Faceseal and Nuisance Level Organic Vapor Relief, 80/Case
	70070843878	50051138662986	8512	3M™ Particulate Welding Respirator, N95, 80/Case
	70070843886	50051138662993	8514	3M™ Particulate Respirator, N95, with Nuisance Level Organic Vapor Relief, 80/Case




Why clock out to get checked out?

Online Respirator Medical Evaluations

Try 2 evaluations, FREE!

Now your employees can stay onsite for their medical evaluation. Sign up, take the OSHA respirator medical evaluation questionnaire, and get instant results with the 3M Online Respirator Medical Evaluation Service. There's no minimum order or hidden costs. For a limited time, first time accounts can get two evaluations at no cost so you can see how convenient it is!

To learn more and receive two free evaluations, go to: 3M.com/OMEPromo



WARNING

These respirators help reduce exposures to certain airborne particulates. Before use, the wearer must read and understand the *User Instructions* provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Misuse may result in sickness or death. For proper use, see package instructions, supervisor, or call 3M PSD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.



Personal Safety Division
3M Center
Building 235-2NW-70
St. Paul, MN 55144-1000

3M Canada Company PSD
P.O. Box 5757
London, Ontario N6A 4T1
Canada

3M PSD products are for occupational use only.

For More Information

Technical Assistance in US: 1-800-243-4630
Technical Assistance in Canada: 1-800-267-4414
www.3M.com/workersafety

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