

- Original 3M Surgical masks
- Seamless global distribution
- Directly from an official 3M manufacturing site
- New production
- Products manufactured and delivered from outside of China.  
NON-Chinese Product
- Full warranty



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**TERMS OFFERED:**

- LC (Letter of Credit)
- SGS verification/documentation before LC
- CIF
- Guaranteed delivery volume upon request

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Michael GRABNER, CEO T: +43 664 85 19 160

E: [m.grabner@rocketmedia.at](mailto:m.grabner@rocketmedia.at)

Care for  
yourself  
while you  
care for  
others.

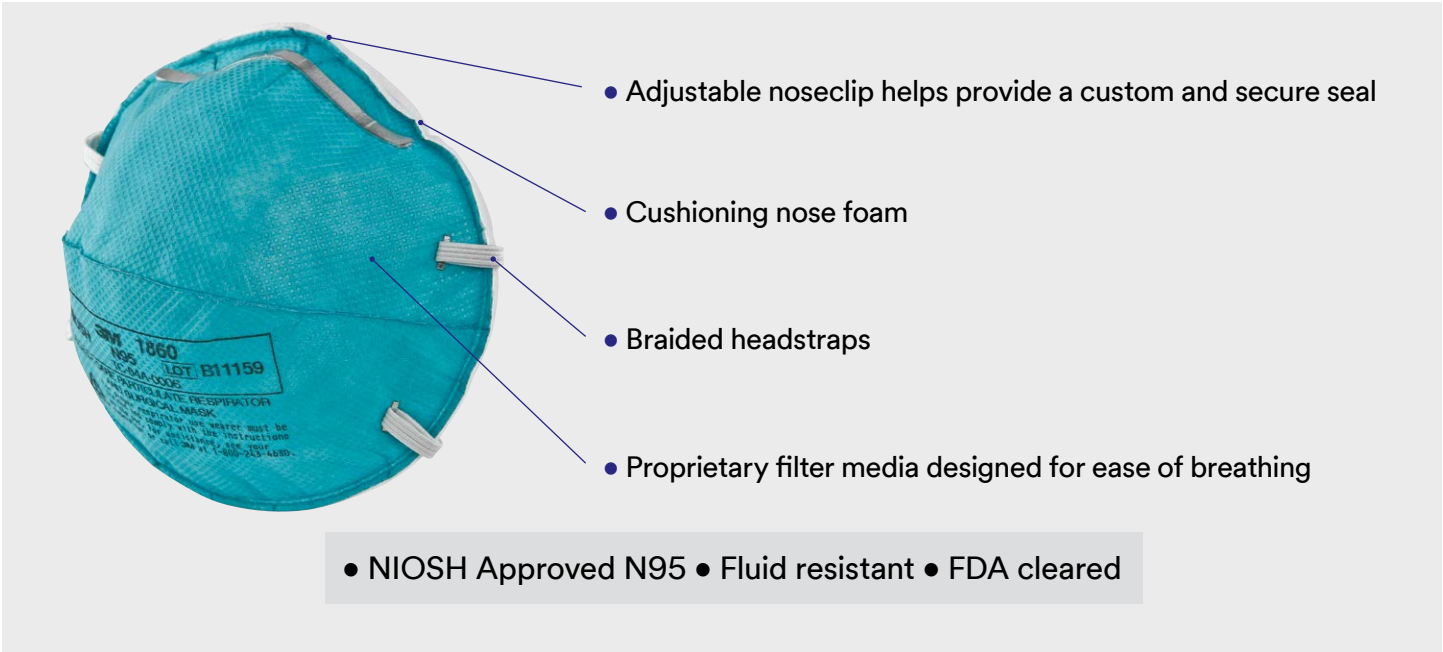


**3M™ Health Care  
Particulate Respirator  
and Surgical Masks  
1860/1860S**

Patient safety is your first priority. But it's just as important to take care of yourself so you can continue to care for others. The 1860 and 1860S respirators help provide respiratory protection that you have trusted for years.

- Collapse-resistant cup-shape design
- Braided head straps for comfort
- Available in two sizes
- Fits a broad range of faces

# 3M™ Health Care Particulate Respirator and Surgical Masks 1860/1860S



## Ordering Information

Cat. Number	Description	Item/Box	Box/Case
1860	3M™ Health Care Particulate Respirator and Surgical Mask	20	6
1860S	3M™ Health Care Particulate Respirator and Surgical Mask, Small	20	6



# 3M Infection Prevention

## Surgical Masks and Respirators



N95 Healthcare Respirators















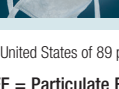
Surgical & Specialty Masks



Procedure Masks





Product Name	Breathability ( $\Delta P$ : mm H <sub>2</sub> O/cm <sup>2</sup> )	Filtration BFE <sup>1</sup> PFE <sup>2</sup>	Fluid and Splash-Resistant	Additional Features
3M™ N95 Particulate Respirator and Surgical Mask — cone 1860 1860S (smaller size) 	Meets or exceeds NIOSH <sup>4</sup> specifications for $\Delta P$	— —	Yes	Standard size surgical / laser mask (1860) Double elastic band
3M™ N95 Particulate Respirator and Surgical Mask — three-panel, flat-fold 1870 	Meets or exceeds NIOSH <sup>4</sup> specifications for $\Delta P$	— —	(160 mm Hg) ASTM <sup>3</sup>	Soft inner liner, Individually packaged surgical / laser mask Single dispensing, Double elastic band
3M™ Molded Surgical Mask 1800+NL 	<0.5	>98% n/a	—	Collapse-resistant Design
3M™ Standard Tie-on Surgical Mask 1816 	<2.5	>99% >98%	—	—
3M™ Tie-on Surgical Mask 1818 	<2.1	>99% >99%	—	Manufactured with 3M Filtration Technology and soft, comfortable rayon
3M™ Tie-on Surgical Mask 1818FSG 	<2.1	>99% >99%	—	Premium anti-fog, anti-reflective face shield
3M™ Ultra-soft Fog-Free Surgical Mask for Sensitive Skin 1833 	<2.0	>99% >99%	—	Soft inner liner for sensitive skin, white, all dyes or colorants removed medical grade non-woven anti-fog strip
3M™ Anti-fog Surgical Mask with Film 1834 	<2.3	>99% >99%	(80 mm Hg) ASTM <sup>3</sup>	High medical grade anti-fog film strip
3M™ High Fluid-Resistant Surgical Mask 1835 	<2.5	>99% >99%	(160 mm Hg) ASTM <sup>3</sup>	—
3M™ High Fluid-Resistant Surgical Mask 1835FS 	<2.5	>99% >99%	(160 mm Hg) ASTM <sup>3</sup>	Anti-fog face shield, black anti-glare strip
3M™ High-Performance Tie-On Surgical Mask 1838R 	<3.6	>99% >99%	(120 mm Hg) ASTM <sup>3</sup>	Fog-free design, off-the-face comfort
3M™ High-Performance Tie-On Surgical Mask 1838FSG 	<3.6	>99% >99%	(120 mm Hg) ASTM <sup>3</sup>	Premium anti-fog, anti-reflective face shield
3M™ Filtron™ Duckbill Tie-On Surgical Mask* 1900 	<1.6	>99% >99%	—	Fog-free design, off-the-face comfort, Duck bill style, tie-on (vertical) Manufactured with 3M Filtration Technology and soft, comfortable rayon.

\* Filtron 1900 surgical mask is manufactured in the United States of 89 percent U.S. components, 11 percent Austrian components and is latex-free.

<sup>1</sup>BFE = Bacterial Filtration Efficiency; <sup>2</sup>PFE = Particulate Filtration Efficiency meets the new classification system for mask standard ASTM F2100-04. PFE test results are provided for comparing performance of surgical masks under similar laboratory conditions. This does not reflect expected levels of filtration efficiency in actual use conditions nor replace the need to use NIOSH certified respirators if exposed to hazardous airborne contaminants. <sup>3</sup>ASTM = American Society of Testing Materials F1862. <sup>4</sup>NIOSH 42 CFR 84 Certified.



## 3M Procedure Masks

### Procedure Masks

#### 3M™ Procedure Mask

1820  
1820FS



	1820	1820FS
Breathability	<2.1	<2.1
Filtration	BFE >99% PFE >98%	BFE >99% PFE >99% Black anti-glare strip

#### 3M™ Standard Procedure Mask

1826



	1826
Breathability	<2.5
Filtration	BFE >99% PFE >98%

#### 3M™ High Fluid-Resistant Procedure Mask

1840



1840FS



	1840	1840FS
Breathability	<2.5	<2.5
Filtration	BFE >99% PFE >99%	BFE >99% PFE >99% Anti-fog face shield black anti-glare strip



3M Health Care

# Technical Specification Sheet

## 3M™ Health Care Particulate Respirator and Surgical Mask, 1860S, N95, Small

### Key Features

- NIOSH approved N95 rating
- FDA cleared for use as a surgical mask
- Fluid Resistance 80 mmHg
- Flammability Rating Class I
- Adjustable nose clip
- Braided and stapled headbands
- Smaller version of the 1860 Health Care Particulate Respirator and Surgical Mask

### Material Composition

- Straps – Braided Polyisoprene
- Staples – Steel
- Nose Clip – Aluminum
- Nose Foam – Polyurethane Foam
- Filter – Polypropylene
- Shell – Polyester
- Coverweb - Polypropylene
- Not made with natural rubber latex
- Approximate weight of product: 0.40 oz.

### Country of Origin

Made in the USA with globally sourced materials

### Use For

- Intended to be worn by operating room personnel during surgical procedures to help protect both the surgical patient and the operating room personnel from transfer of microorganisms, body fluids, and particulate material.
- Always follow *User Instructions* and use in manners as indicated



### Do Not Use For

- DO NOT use in industrial settings
- DO NOT use for gases or vapors (i.e. anesthetic gases such as isoflurane or vapors from sterilants such as glutaraldehyde.)
- DO NOT use in any manner not indicated in the *User Instructions*

### Approvals and Standards

- NIOSH approved N95 respirator
- Meets NIOSH 42 CFR 84 N95 requirements for a minimum 95% filtration efficiency against solid and liquid aerosols that do not contain oil.
- NIOSH approval number: TC-84A-0006
- FDA cleared for use as a surgical mask
- Health Canada Class I medical device
- Bacterial Filtration Efficiency F2101 >99% BFE
- Assigned Protection Factor (APF 10) per US OSHA and Canada CSA

Ordering Information					
Description	UPC	ID #	Respirators/B ox	Boxes/Case	Each/Case
Health Care Particulate Respirator, 1860S	50707387444124	70-0706-1437-8	20	6	120



### Time Use Limitation

Respirator may be used until damaged, breathing becomes difficult or contaminated with blood or body fluids. Discard after every use when used for surgical procedures. Follow national, state, local, and facility infection control guidance and policies.

### Shelf Life and Storage

- 5 years from the date of manufacture
- Use By date on box in YYYY-MM-DD format
- Store respirators in the original packaging, away from contaminated areas, dust, sunlight, extreme temperatures, excessive moisture, and damaging chemicals
- Store in temperatures between -4°F (-20°C) and +86°F (+30°C) and not exceeding 80% RH

### Acceptable Fit Test Protocols

Fit Test Protocol*		Acceptable with this product?
Qualitative Protocols	Saccharin	<input checked="" type="checkbox"/>
	Bitrex™	<input checked="" type="checkbox"/>
	Irritant Smoke	<input type="checkbox"/>
	Isoamyl Acetate	<input type="checkbox"/>
Quantitative Protocols		<input checked="" type="checkbox"/>

\*Refer to OSHA 1910.134



**3M**



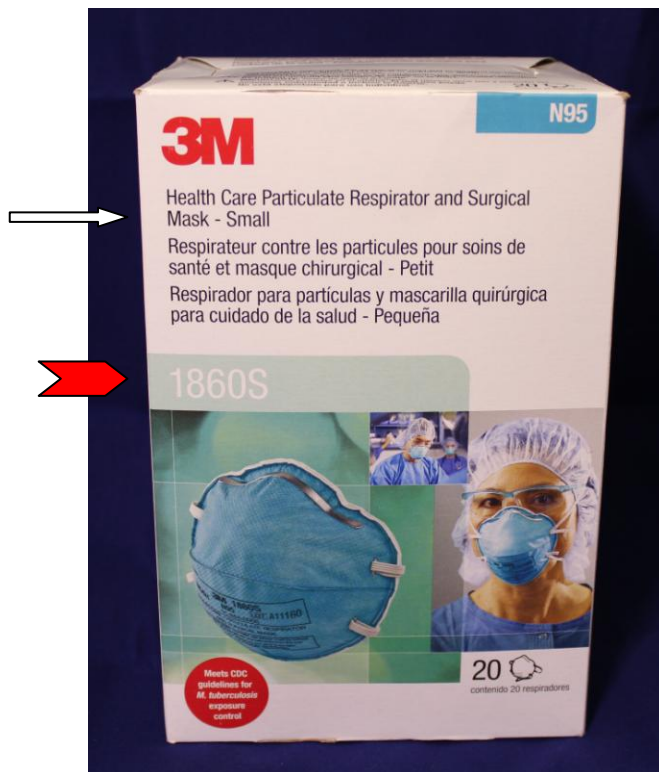
## Product Update Notification

Re: 1860/1860S Package Appearance and Shelf Life Markings

Dear Valued Customer:

This letter is to notify you of recent changes in the outer packaging (box) appearance for 3M™ Health Care Particulate Respirators and Surgical Masks 1860 and 1860S. Please note that the products themselves have not changed. The packaging was updated for marketing purposes and to address shelf life markings. The photos below show the front panel of the new packaging for the 1860S (small) and the 1860 (regular).

**1860S (Small)**



**1860 (Regular)**



### Shelf life markings

3M has been in the process of establishing a shelf life for our healthcare filtering facepiece respirators. Traditionally the life cycle of these respirators commonly used in health care workplace applications, from date of manufacture to use by the customer, has been short in duration as they are disposable. However, with the increased attention to respirator stockpiling, many customers have requested information on storage conditions and shelf life. The shelf life determination for each respirator model is product specific, based on material components and

testing and takes into consideration the respirator as a system. We have recently completed testing and data collection on the 3M 1860/1860S and based on the evaluation, a 5 year shelf-life has been established when respirators are stored in their original packaging within climatic conditions ranging from -4°F (-20°C) to +86°F (+30°C) and not exceeding 80% RH.

Here is an example of how the storage conditions and shelf life will be depicted in the Instructions for Use and on the side of the primary box respectively (this is an example only):

*When stored in original packaging between temperatures from -4°F (-20°C) to +86°F (+30°C) and not exceeding 80% RH, the respirator may be used until the date specified on packaging located next to the "Use by Date" symbol.*



= Use by Date

Package marking example







# Health Care Particulate Respirator and Surgical Mask 1860/1860S

## User Instructions

**IMPORTANT:** Keep these *User Instructions* for reference.

**WARNING**

This respirator helps protect against certain particulate contaminants but does not eliminate exposure to or the risk of contracting any disease or infection. **Misuse may result in sickness or death.**

98-0060-0034-7\_2  
34-8710-9471-9

### IMPORTANT:

Before use, the wearer must read and understand these *User Instructions*. Keep these instructions for reference.

### Description:

The 3M™ Health Care Particulate Respirator and Surgical Mask 1860/1860S is designed to help provide respiratory protection for the wearer. This respirator has a filter efficiency level of at least 95% against particulate aerosols free of oil†. It is fluid resistant‡ and meets > 99% bacterial filtration efficiency (BFE)±. It is disposable and may be worn in surgery. It can fit a wide range of face sizes.

This product contains no components made from natural rubber latex.

### Intended Use:

This product meets CDC guidelines for *M. tuberculosis* exposure control. As a respirator, it is intended to help reduce wearer exposure to certain airborne particles, including those generated by electrocautery, laser surgery, and other powered medical instruments. As a surgical mask, it is designed to be fluid resistant to splash and spatter of blood and other infectious materials‡.

### Contraindications:

3M recommends that this respirator is not for industrial use. Not for use with beards or other facial hair or conditions that prevent a good seal between the face and the sealing edge of the respirator. Does not protect against gases or vapors (i.e. anesthetic gases such as isoflurane or vapors from sterilants such as glutaraldehyde). **This respirator was not designed to be used by children.**

- † Tested against a 0.3 micron particle (mass median aerodynamic diameter) per U.S. 42 CFR 84.
- ‡ Meets ASTM Fluid Resistant Challenge F1862.
- ± Meets ASTM Standard Test Method for Bacterial Filtration Efficiency F2101.

### Use Instructions:

1. In the U.S., before occupational use of this respirator, a written respiratory protection program must be implemented meeting all requirements of U.S. OSHA 29 CFR 1910.134 such as medical evaluation, training and fit testing. Select and use respirator in accordance with all applicable regulations, standards and professional guidance. Fit testing must be performed while the test subject is wearing any applicable safety equipment that may be worn during actual respirator use which could interfere with respirator fit, such as hair bonnets and eyewear. In Canada, CSA standard Z94.4 requirements must be met. Follow all applicable local regulations. This respirator is designed for occupational/professional use by adults who are properly trained in its use and limitations. The 3M FT-10 (sweet solution) or FT-30 (bitter solution) Qualitative Fit Test Apparatus or other OSHA accepted fit test protocols are recommended for fit testing this respirator.

2. Inspect respirator before each use to ensure that it is in good operating condition. Examine all the respirator parts for signs of damage including the two headbands, staples, noseclip, nosefoam and facepiece material. Ensure there are no holes in the breathing zone other than the punctures around staples and no damage has occurred. Enlarged holes resulting from ripped or torn filter material around staple punctures are considered damaged. Staple perforations do not affect NIOSH approval. The respirator should be disposed of immediately upon observation of damage or missing parts.
3. Leave the contaminated area immediately and contact your supervisor if dizziness, irritation or other distress occurs.
4. Respirator may be used until damaged, breathing becomes difficult or contaminated with blood or body fluids. Discard after every use when used for surgical procedures. Follow national, state, local and facility infection control guidance and policies.

### Fitting Instructions: Must be followed each time respirator is worn.



1. Cup the respirator in your hand, with the nosepiece at your fingertips, allowing the headbands to hang freely below your hand.
2. Position the respirator under your chin with the nosepiece up. Pull the top strap over your head resting it high at the top back of your head. Pull the bottom strap over your head and position it around the neck below the ears. Make certain hair, facial hair, jewelry and clothing are not between your face and the respirator as they will interfere with fit.
3. Place your fingertips from both hands at the top of the metal nosepiece. Using two hands, mold the nose area to the shape of your nose by pushing inward while moving your fingertips down both sides of the nosepiece.
- Pinching the nosepiece using one hand may result in improper fit and less effective respirator performance (Use two hands).
4. Perform a User Seal Check. To check the respirator-to-face seal, place both hands completely over the respirator and exhale. Be careful not to disturb the position of the respirator. If air leaks around nose, readjust the nosepiece as described in step 3. If air leaks around the respirator edges, adjust position of straps and make certain respirator edges fit snugly against the face. **If you CANNOT achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**

### Removal Instructions:



1. Without touching the respirator, *slowly* lift the bottom strap from around your neck up and over your head. Then lift off the top strap. Store or discard according to your facility's infection control policy. Dispose of used product in accordance with applicable regulations.

### Storage Conditions and Shelf Life:

Before use, store respirators in the original packaging, away from contaminated areas, dust, sunlight, extreme temperatures, excessive moisture and damaging chemicals. When stored in original packaging between temperatures from -4°F (-20°C) to +86°F (+30°C) and not exceeding 80% RH, the product may be used until the date specified on packaging located next to the “Use by Date” symbol.

- = Use by Date
- = Manufacturer
- = Date of Manufacture
- LOT** = Manufacturer's Lot Number relevant to the device bearing the symbol

NIOSH Approved N95 Respirator:

At least 95% filtration efficiency against solid and liquid aerosols that do not contain oil.

THESE RESPIRATORS ARE APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:					
		RESPIRATOR COMPONENTS			
		FILTERING FACEPIECE			
TC-	PROTECTION <sup>1</sup>	1860	1860S	8612F	CAUTIONS AND LIMITATIONS <sup>2</sup>
84A-0006	N95	X	X		ABCJMNOP
84A-4526	N95			X	ABCJMNOP

1. **PROTECTION**
- N95 - Particulate Filter** (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.
2. **CAUTIONS AND LIMITATIONS**
- A - Not for use in atmospheres containing less than 19.5 percent oxygen.  
B - Not for use in atmospheres immediately dangerous to life or health.  
C - Do not exceed maximum use concentrations established by regulatory standards.  
J - Failure to properly use and maintain this product could result in injury or death.  
M - All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA and other applicable regulations.  
N - never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.  
O - Refer to User's Instructions, and / or maintenance manuals for information on use and maintenance of these respirators.  
P - NIOSH does not evaluate respirators for use as surgical masks.
- Rev. F: 11-19-07



## Respirateur contre les particules pour soins de santé et masque chirurgical 1860 et 1860S

### Directives d'utilisation

**IMPORTANT**<sup>1</sup> : Conserver ces *directives d'utilisation* à titre de référence.

**MISE EN GARDE**

Ce respirateur protège contre certaines particules contaminantes, mais n'élimine cependant pas le risque d'être exposé ou de contracter une maladie ou une infection. **Une mauvaise utilisation peut provoquer des problèmes de santé ou la mort.**

### IMPORTANT :

Avant de se servir du produit, l'utilisateur doit lire et comprendre les présentes *directives d'utilisation*. Conserver ces directives d'utilisation à titre de référence.

### Description :

Le respirateur contre les particules pour soins de santé et masque chirurgical 1860/1860S 3M™ est conçu pour offrir une protection respiratoire à l'utilisateur. Le respirateur présente une efficacité de filtration d'au moins 95% contre les aérosols exempts d'huile<sup>1</sup>. De plus, il résiste aux liquides<sup>2</sup> et présente une efficacité de filtration des bactéries (EFB)<sup>±</sup> supérieure à 99%. Il est jetable et peut être porté dans le cadre d'interventions chirurgicales. Il s'adapte également à un vaste éventail de formes de visage.

Ce produit ne contient aucun composant en latex de caoutchouc naturel.

### Usage prévu :

Ce produit est conforme aux directives des CDC pour le contrôle de l'exposition à *M. tuberculosis*. Comme respirateur, il est destiné à réduire l'exposition de l'utilisateur à certaines particules en suspension dans l'air, notamment celles produites par les électrocautères, les instruments chirurgicaux au laser et autres instruments médicaux électriques. Comme masque chirurgical, il est conçu pour résister aux éclaboussures et aux projections de sang et d'autres matières infectieuses<sup>3</sup>.

### Contre-indications :

Selon les recommandations de 3M, ce respirateur n'est pas destiné à un usage industriel. Ne pas utiliser si on porte la barbe ou des poils, ou si on présente toute autre condition susceptible d'empêcher un contact direct entre le joint facial du masque et le visage. Ne protége pas contre les gaz et les vapeurs (p. ex., les gaz anesthésiques comme l'isoflurane ou les émanations d'agents stérilisants comme le glutaraldéhyde). **Ce respirateur n'est pas conçu pour être utilisé par des enfants.**

- † Mis à l'essai avec des particules de ≈ 0,3 µm (diamètre aérodynamique moyen en masse) conformément au règlement 42 CFR 84 des États-Unis.
- ‡ Conforme à l'essai de résistance aux liquides F1862 de l'ASTM.
- ± Conforme à la méthode d'essai normalisée de l'efficacité de filtration des bactéries F2101 de l'ASTM.

### Directives d'utilisation :

1. Aux États-Unis, avant d'utiliser ce respirateur en milieu professionnel, mettre sur pied un programme de protection respiratoire écrit, conforme au règlement 29 CFR 1910.134 de l'OSHA des É.-U. en matière d'évaluation médicale, de formation et d'essai d'ajustement. Sélectionner et utiliser le respirateur en respectant tous les règlements, normes et directives professionnelles applicables. Effectuer l'essai d'ajustement avec un sujet qui porte du matériel de protection approprié qui, porté avec le respirateur, pourrait nuire à son ajustement, comme un bonnet ou des lunettes de protection. Au Canada, il est nécessaire de se conformer à la norme Z94.4 de la CSA. Suivre tous les règlements locaux applicables. Ce respirateur est conçu pour une utilisation professionnelle par des adultes adéquatement formés quant à son utilisation et qui en connaissent les limites et les restrictions. L'appareil pour essai d'ajustement qualitatif FT-10 3M (solution sucrée), l'appareil pour essai d'ajustement qualitatif FT-30 3M (solution amère) ou d'autres protocoles d'essai d'ajustement homologués par l'OSHA sont recommandés pour la réalisation d'essais d'ajustement avec ce respirateur.
2. Inspecter le respirateur avant chaque utilisation pour s'assurer qu'il est en bon état de fonctionnement. Examiner tous les composants du respirateur pour voir s'ils sont endommagés, y compris les serre-tête, les agrafes, la pince nasale, la bande nasale en mousse et le matériau du masque. S'assurer qu'il n'y a pas de trou dans la zone de respiration, à part les perforations des agrafes, et qu'il n'est pas endommagé. Les trous agrandis en raison d'une déchirure du matériau filtrant autour des perforations des agrafes constituent un dommage. Les perforations des agrafes n'affectent pas l'homologation du NIOSH. Mettre immédiatement le respirateur au rebut s'il est endommagé ou si des pièces sont manquantes.
3. Quitter immédiatement la zone contaminée et communiquer avec son superviseur si des étourdissements, une irritation ou tout autre malaise se manifestent.
4. Il est possible d'utiliser le respirateur jusqu'à ce qu'il soit endommagé ou contaminé par du sang ou d'autres liquides organiques. Le mettre au rebut après son utilisation dans le cadre d'intervention chirurgicale. Respecter les directives et les politiques nationales, provinciales et locales ainsi que celles de l'établissement en matière de prévention des infections.

**Directives d'ajustement : Suivre les directives d'ajustement chaque fois qu'on utilise le respirateur.**



1. Placer le respirateur dans le creux de la main, la pince nasale sur le bout des doigts, en laissant pendre les courroies librement.
2. Placer le respirateur sous le menton en dirigeant la pince nasale vers le haut. Passer la courroie supérieure par-dessus la tête et la placer derrière la tête vers le haut. Passer ensuite la courroie inférieure par-dessus la tête et la placer autour du cou, sous les oreilles. S'assurer qu'il n'y a aucune pilosité faciale, cheveux, bijoux et vêtements entre le visage et le respirateur, ce qui nuirait à l'ajustement.
3. Placer le bout des doigts des deux mains sur le dessus de la pince nasale métallique. Avec les deux mains, mouler la pince nasale à la forme du nez en poussant vers l'intérieur tout en déplaçant le bout des doigts vers le bas de chaque côté de la pince nasale.

Le fait d'utiliser une seule main pour modeler la pince nasale peut résulter en un mauvais ajustement du respirateur et en réduire l'efficacité (utiliser les deux mains).

# Helping You Wear it Right

3M™ Health Care Particulate Respirator and Surgical Masks, 1860/1860S

## Application



**1** Cup the respirator in your hand with the nosepiece at fingertips, allowing the head straps to hang freely below hand.



**2** Position the respirator under your chin with the nosepiece up.



**3** While holding the respirator in place, pull the top strap over your head so it rests high on the back of your head.



**4** While continuing to hold the respirator firmly in place, pull the bottom strap over your head and position it around your neck, below your ears. Untwist the straps. Position the respirator low on your nose.



**5** Using both hands, mold the nosepiece to the shape of your nose by pushing inward while moving your fingertips down both sides of the nosepiece.  
**Note: Always use two hands when molding nosepiece. Pinching with one hand may result in improper fit and less effective respirator performance.**

## PERFORM A USER SEAL CHECK



**6** The respirator must be checked before each use. To perform the user seal check, place both hands completely over the respirator, being careful not to disturb the position, and exhale sharply. If air leaks around your nose, adjust the nosepiece as described in step 5. If air leaks at respirator edges, adjust the straps back along the sides of your head. Perform seal check again if an adjustment is made. If you cannot achieve a proper fit, see your supervisor. Do not enter area requiring respirator use.

## Removal



**1** Without touching the respirator, slowly lift the bottom strap from around your neck up and over your head.



**2** Lift off the top strap. Do not touch the respirator.



**3** Store or discard according to your facility's infection control policy.



## Article Information Sheet

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This Article Information Sheet is provided as a courtesy in response to a customer request. A Safety Data Sheet (SDS) has not been prepared for these product(s) because they are articles. Articles are not subject to the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this standard: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

**Document Group:** 08-1958-1  
**Issue Date:** 03/15/18

**Version Number:** 2.01  
**Supersedes Date:** 06/02/17

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ 8210 N95 Particulate Respirator

#### Product Identification Numbers

70-0706-1439-4, 70-0706-1440-2, 70-0706-1446-9, 70-0708-9244-6, 70-0712-8716-6, 70-0714-8617-2, 70-0716-2311-3, 70-0716-6888-6, GT-5000-3651-9

#### 1.2. Recommended use and restrictions on use

**Recommended use**  
Respiratory Protection

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:**  
**ADDRESS:**  
**Telephone:**

### SECTION 2: Hazard identification

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### SECTION 3: Composition/information on ingredients



Ingredient	C.A.S. No.	% by Wt
Polypropylene	None	40 - 70 Trade Secret *
Polyester	None	10 - 30 Trade Secret *
Thermoplastic Elastomer	None	10 - 30 Trade Secret *
Aluminum	None	7 - 13 Trade Secret *
Adhesive Film	None	0.5 - 1.5 Trade Secret *
Polyurethane Foam	None	0.5 - 1.5 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

No need for first aid is anticipated.

**Skin Contact:**

No need for first aid is anticipated.

**Eye Contact:**

No need for first aid is anticipated.

**If Swallowed:**

No need for first aid is anticipated.

## SECTION 5: Fire-fighting measures

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

### 6.2. Environmental precautions

Not applicable.

### 6.3. Methods and material for containment and cleaning up

Not applicable.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>General Physical Form:</b>	Solid
<b>Specific Physical Form:</b>	Non-Woven Material
<b>Odor, Color, Grade:</b>	White, non-woven respirator shell with aluminum noseclip and yellow headbands. No odor.
<b>Odor threshold</b>	<i>Not Applicable</i>
<b>pH</b>	<i>Not Applicable</i>
<b>Melting point</b>	<i>No Data Available</i>
<b>Boiling Point</b>	<i>Not Applicable</i>
<b>Flash Point</b>	<i>Not Applicable</i>
<b>Evaporation rate</b>	<i>Not Applicable</i>
<b>Flammability (solid, gas)</b>	Not Classified
<b>Flammable Limits(LEL)</b>	<i>Not Applicable</i>
<b>Flammable Limits(UEL)</b>	<i>Not Applicable</i>
<b>Vapor Pressure</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	<i>Not Applicable</i>
<b>Density</b>	<i>Not Applicable</i>
<b>Specific Gravity</b>	<i>Not Applicable</i>
<b>Solubility In Water</b>	<i>Not Applicable</i>
<b>Solubility- non-water</b>	<i>Not Applicable</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>No Data Available</i>
<b>Autoignition temperature</b>	<i>Not Applicable</i>
<b>Decomposition temperature</b>	<i>Not Applicable</i>
<b>Viscosity</b>	<i>Not Applicable</i>
<b>Volatile Organic Compounds</b>	<i>Not Applicable</i>
<b>Percent volatile</b>	<i>Not Applicable</i>
<b>VOC Less H2O &amp; Exempt Solvents</b>	<i>Not Applicable</i>

## SECTION 10: Stability and reactivity

This material is considered to be non reactive under normal use conditions.

## SECTION 11: Toxicological information

### Inhalation:

No health effects are expected

### Skin Contact:

No health effects are expected

### Eye Contact:

No health effects are expected

### Ingestion:

No health effects are expected

### Additional Information:

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a

health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

## SECTION 12: Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

## SECTION 13: Disposal considerations

Dispose of contents/container in accordance with the local/regional/national/international regulations.

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo>.

## SECTION 15: Regulatory information

### Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

## SECTION 16: Other information

### NFPA Hazard Classification

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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**Issue Date:** 03/15/18

**Version Number:** 2.01  
**Supersedes Date:** 06/02/17

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**3M** Science.  
Applied to Life.™

**Protection that  
works as hard  
as you do.**



# Comfort options that work for you.

Whenever there's a dirty, dusty job to be done, a comfortable respirator can help to make your workers want to wear it and promote compliance as required at all times during exposure to hazardous or unhealthy conditions.

There are options to protect against airborne particles and mists that can affect your workers' health. 3M offers a wide selection of NIOSH-approved filtering facepiece respirators for numerous work-related tasks. Whether it's sweeping, sanding, grinding, sawing, bagging or welding, 3M provides a variety of innovative technologies and features – all designed to provide comfort, convenience and value.

- Lightweight and comfortable
- Adjustable noseclips to help provide a custom seal
- Variety of strap types and attachments
- Some available with carbon filter material for nuisance level gas/vapor relief <sup>1</sup>
- Compatible with certain eye protection

## Get more face time.

A respirator can't give workers all the protection it was designed to provide, unless it is selected and worn correctly during all periods of exposure. That's why 3M uses a variety of innovative technologies and features designed to enhance user comfort and help increase wear time.

Disposable respirators require a good seal between the respirator and face to deliver the expected protection. To obtain a good seal, always follow all directions provided with each respirator model.

## 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 particle 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.

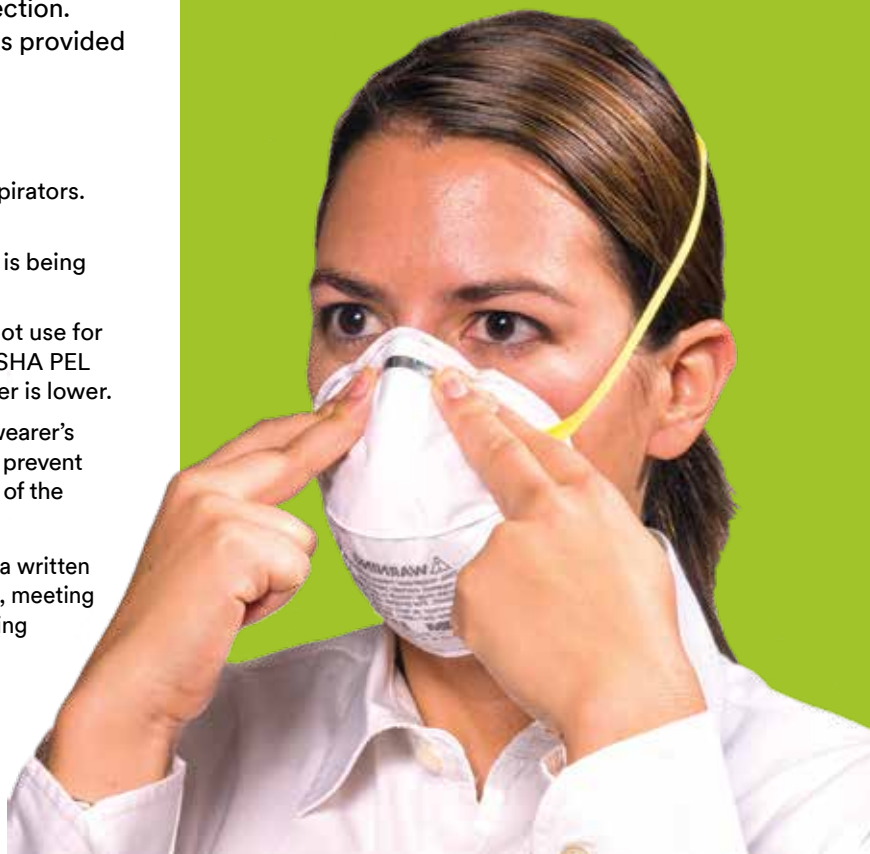
## Particulate filter types

NIOSH-approved filters are rated as N95, R95, P95, N99, R99, P99, N100, R100 or P100. The number 95, 99, or 100 (99.97%) indicates the percent NIOSH filtration efficiency.

<b>N Series</b>	Used in particulate environments free of oil aerosols.
<b>R Series</b>	Used for oil and non-oil particles with time use limitations specified by NIOSH.
<b>P Series</b>	Used for oil and non-oil particles with time use limitations specified by manufacturer.

Per user instructions, the respirator needs to be correctly positioned on your face and head:

- Upper strap should be positioned on the crown of the head.
- Lower strap should be positioned below the ears.
- Noseclip should be completely molded to the shape of the nose using two hands.
- Always conduct a user seal check.
- Always follow the appropriate user and donning instructions for the specific model.

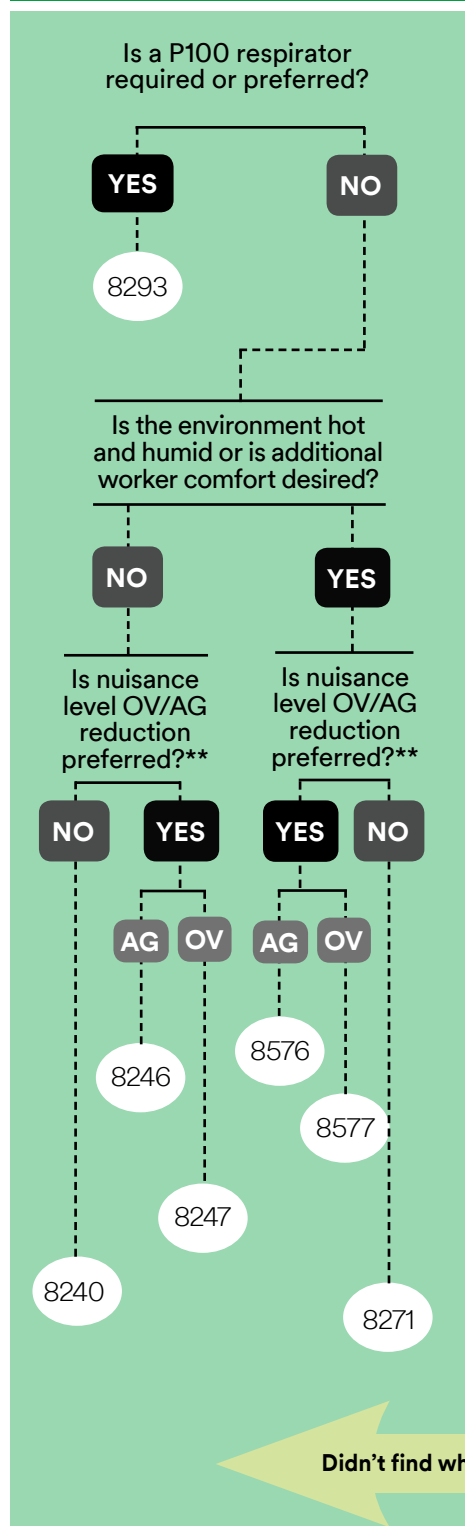


# Product Preference Selector

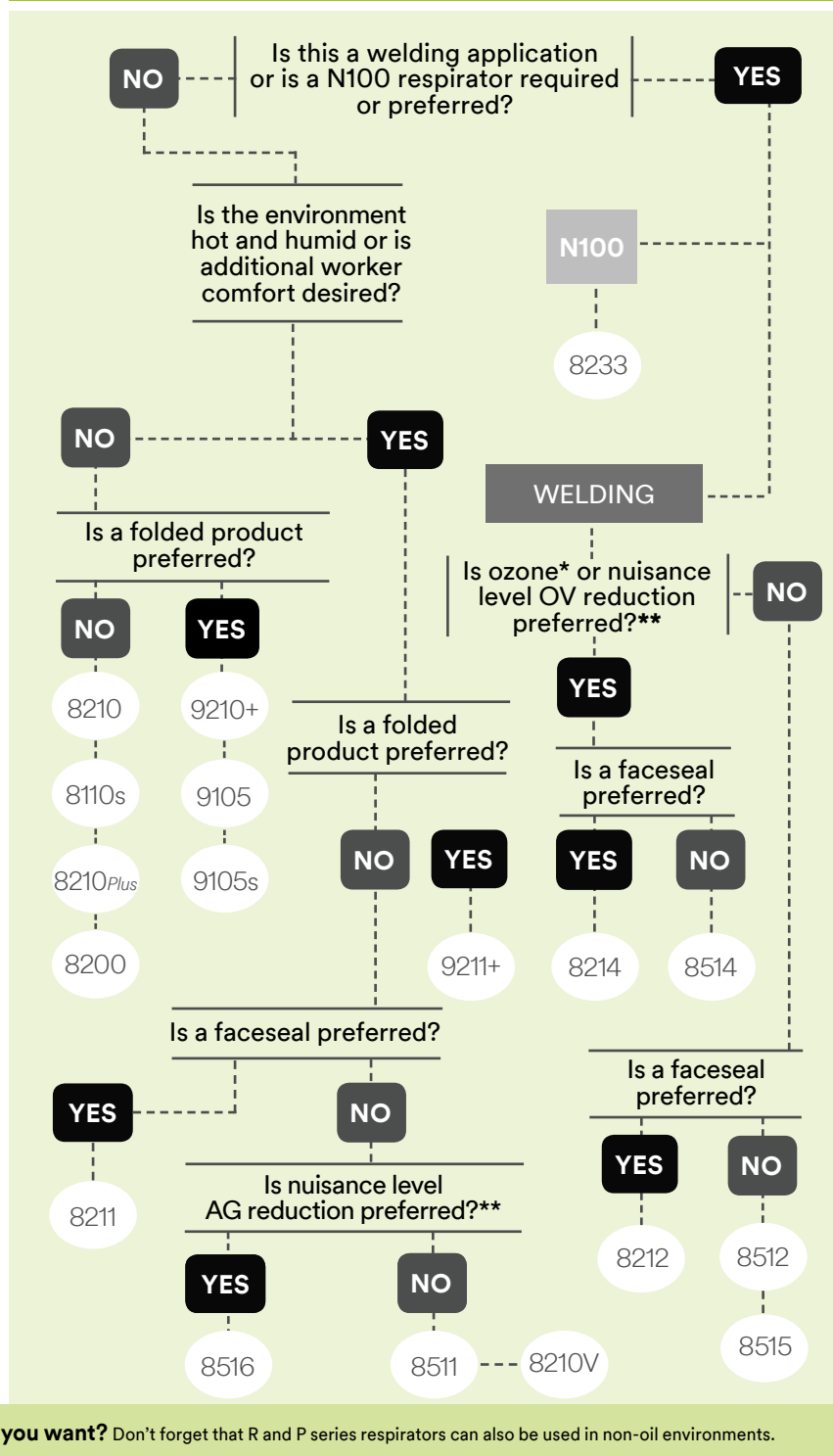
Use the selector below to identify which respirator may be preferred for increased worker comfort.

What type of particles are in your environment?

## Oil and Non-Oil R- or P-Series Respirators



## Non-Oil N-Series Respirators



Didn't find what you want? Don't forget that R and P series respirators can also be used in non-oil environments.

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

\*\*3M recommended for relief against nuisance level acid gas (AG) or organic vapors (OV).

Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.

# Everyday value. All-day comfort

Reliable, value-priced protection against a wide range of non-oily particles. Engineered to provide 95% NIOSH filtration efficiency.

## Unvalved N95 Respirators



### 8210 (N95)

Breathe easier! Advanced Electrostatic Media technology enhances particulate capture while reducing breathing resistance. Designed with welded strap attachment for greater durability, soft nose foam, for more comfort and adjustable noseclip to help ensure a secure custom seal.

### 8210Plus (N95) AAD #07048

All the features that make the 8210 one of the most widely used disposable respirators in the industry – with the addition of comfortable braided headbands and staple-free attachment.



### 8110S (N95)

Similar to 8210, but sized for people with smaller faces.



### 9210+ (N95) AAD #37192

A breakthrough in comfort and convenience. This innovatively designed three-panel respirator helps deliver comfortable, reliable worker protection against non-oil based particles.



*Individually packaged*

### 8200 (N95) AAD #07023

Economy without compromise. Includes many of the same features as the 8210.



### 9105 & 9105S (N95)

The economical 3M™ VFlex™ Particulate Respirator's proprietary V-shaped pleats help make breathing easier, expand to provide a comfortable seal, and flex with mouth movement for easier talking. Available in two sizes.



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



# A breath of fresh air.

These respirators all feature the proprietary 3M™ Cool Flow™ Exhalation Valve – designed to release hot, humid exhaled breath quickly, helping to reduce heat build-up and moisture inside the facepiece.

## N95 Respirators



### 8511 (N95) AAD #07185

Stays cooler!\* Our most popular valved model is suited for hot, humid environments, or for long periods of wear.



\* Compared to non-valve disposable respirators.

## 100 Class Respirators

Typically used for certain OSHA substance specific contaminants (excluding asbestos but including lead, MDA, arsenic, and cadmium); and pharmaceutical manufacturing.

### 8293 (P100)

For those who want NIOSH's highest-rated filtration efficiency in a disposable respirator, this provides a minimum filter efficiency of 99.97% against **oil-based** particles.



*Individually packaged*

### 8211 (N95)

All the great features of the 8511, plus a comfortable foam face seal. Its design helps protect against certain **non-oil based** particles.



### 8233 (N100)

For those who want NIOSH's highest-rated filtration efficiency in a disposable respirator, this provides a minimum filter efficiency of 99.97% against **non-oil based** particles.



*Individually packaged*

### 9211+ (N95) AAD #37193

Comfort meets convenience. Three-panel respirator that's suited for work situations involving heat, humidity, or long periods of wear.



*Individually packaged*

### 8210V (N95)

An economical option when a valved respirator is desired, this respirator is based on the popular 8210 and features the proprietary 3M™ Cool Flow™ Valve.



## Featured Technologies

3M's technological benefits help you match the right respirator to your environment. Use this color code to identify which features are included on each respirator.



### Advanced Electrostatic Media

Breathe easier! Proprietary filter media allows greater air flow while capturing more contaminants in the electrostatically-charged microfibers.

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

# Filter out metal fumes

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

## N95 Respirators



**8214 (N95)** AAD #07187

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.

*Potential Applications: Welding, particularly with stainless, galvanized and aluminum, metal pouring.*



**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.

*Potential Applications: Welding, metal pouring.*



**8514 (N95)**

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

*Potential Applications: Welding, particularly with stainless, galvanized and aluminum and metal pouring.*



**8512 (N95)**

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

*Potential Applications: Welding, metal pouring.*



**8515 (N95)** AAD #07189

An economical option for welders. Features welding web, adjustable M-Noseclip, and braided headbands to help provide a custom and secure seal.

*Potential Applications: Welding, metal pouring.*



**8516 (N95)**

Designed specifically for metal pouring applications in the aluminum industry. Helps protect against certain non-oil based particles, including those with nuisance levels of **acid gases\*\*** such as sulphur dioxide, hydrogen fluoride, and/or chlorine.

*Potential Applications: Metal pouring.*



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



### Cool Flow™ Exhalation Valve

Proprietary one-way valve for easy exhalation and cool comfort.



### Face Seal

A more comfortable and secure fit, with this soft face seal that conforms closely to the face.



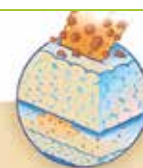
### P-Series Filter

Get prolonged protection in oil environments, made possible with proprietary Advanced Electrostatic Media.



### M-Noseclip

Easily adjustable for fewer pressure points and greater comfort.



### Cake-Resistant Filter Media

Long-lasting, easier-breathing comfort with proprietary layered filter media, specifically designed for welding.



# Specialized solutions for harsh environments.

## R95 Respirators

R series are resistant to oil mist.

### 8247 (R95) AAD #07186

Helps provide comfortable protection against certain oil and non-oil based particles – including those with nuisance levels of **organic vapors\*\***, such as solvents, degreasers, and resins.

*Potential Applications: Foundry operations, lab settings, agriculture, petrochemical manufacturing and undercoating where particles and nuisance levels\* of organic vapors may be present.*



## P95 Respirators

P series respirators are oil-resistant and can be used wherever protection in oil environments is needed.

### 8577 (P95)

Helps provide comfortable, reliable worker protection against certain oil and non-oil based particles – including those with nuisance levels of **organic vapors\*\*** such as solvents, degreasers, and resins.

*Potential Applications: Foundry operation, lab settings, agricultural, petrochemical and manufacturing.*



### 8246 (R95)

Helps protect against certain oil and non-oil based particles – including those with nuisance levels of **acid gases\*\*** such as sulphur dioxide, hydrogen fluoride, and/or chlorine.

*Potential Applications: Glass etching, chemical processing, paper processing, aluminum smelting and brewing operations where particles and nuisance levels of acid gases\* may be present.*



### 8576 (P95)

Helps provide comfortable, reliable worker protection against certain oil and non-oil based particles – including those with nuisance levels of **acid gases\*\*** such as sulphur dioxide, hydrogen fluoride, and/or chlorine.

*Potential Applications: Glass etching, chemical processing, paper processing, aluminum smelting and brewing operations.*



### 8240 (R95)

Helps protect against certain oil and non-oil based particles. Features a collapse-resistant shell for increased durability.

*Potential Applications: Grinding, sanding, sweeping, machining and other dust producing/oily operations.*



### 8271 (P95)

Helps protect against certain oil and non-oil based particles. It features a collapse-resistant shell for increased durability in most hot, humid conditions.

*Potential Applications: Grinding, sanding, sweeping, machining and other dust producing/oily operations.*



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



#### Adjustable Buckle Straps

Get a comfortable, secure seal fast, with a single tug.



#### Welding Web

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



#### Carbon Filter Material

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

# 3M.com/disposable

Visit our website for more information: Online Medical Evaluations • Respiratory Management Program • Videos • Where to buy • Training tools. Plus download our Tech Bulletins.

## Product Ordering Information

Model	NIOSH Class	Stock Number UPC	Qty/ Box	Boxes/ Case	Case Qty
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### Comfort

9105	N95	70-0715-6389-7 50051131 17397 7	50	8	400
9105s	N95	70-0715-6388-9 50051131 17394 6	50	8	400
8110s	N95	70-0707-5707-8 50051138 54305 6	20	8	160
8200	N95	70-0715-3449-2 50051131 07023 8	20	8	160
8210	N95	70-0706-1439-4 50051138 46457 3	20	8	160
8210Plus	N95	70-0710-9189-9 50051131 52924 8	20	8	160
9210+	N95	GT-5000-7298-5 50051131 37192 2	20	12	240

### Comfort Plus

8210V	N95	70-0716-0658-9 50051131 49711 0	10	8	80
8211	N95	70-0710-4255-3 50051131 52750 3	10	8	80
8511	N95	70-0707-5755-7 50051138 54343 8	10	8	80
9211+	N95	GT-5000-7299-3 50051131 37193 9	10	12	120

### 100 Class

8233	N100	70-0707-0901-2 5001138 541543 4	1	20	20
8293	P100	70-0707-5747-4 50051138 54336 0	1	20	20

Model	NIOSH Class	Stock Number UPC	Qty/ Box	Boxes/ Case	Case Qty
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### Specialty

8240	R95	70-0708-4386-0 50051138 66297 9	20	6	120
8246	R95	70-0707-5771-4 50051138 54357 5	20	6	120
8247	R95	70-0707-5772-2 50051138 54358 2	20	6	120
8271	P95	70-0707-1083-8 50051138 54285 1	10	8	80
8576	P95	70-0707-5793-8 50051138 54370 4	10	8	80
8577	P95	70-0707-5794-6 50051138 54371 1	10	8	80

### Welding and Metal Pouring

8212	N95	70-0707-0899-8 50051138 54141 0	10	8	80
8214	N95	70-0707-9953-4 50051138 66192 7	10	8	80
8512	N95	70-0708-4387-8 50051138 66298 6	10	8	80
8514	N95	70-0708-4388-6 50051138 66299 3	10	8	80
8515	N95	70-0708-9002-8 50051131 07189 1	10	8	80
8516	N95	70-0708-4573-3 50051138 66392 1	10	8	80



**Why clock out to get checked out?**  
Online Respirator Medical Evaluations

**Try 2 evaluations, FREE! ▶**



# Technical Specification Sheet

## 3M™ Particulate Respirator 8210, N95

### Key Features

- NIOSH approved N95 rating
- Adjustable nose clip
- Nose foam
- Ultrasonically welded headbands

### Material Composition

- Straps – Thermoplastic Elastomer
- Nose Clip – Aluminum
- Nose foam - Polyurethane
- Filter – Polypropylene
- Shell – Polyester
- Coverweb - Polyester
- This respirator contains no components made from natural rubber latex
- Approximate weight of product: 0.35 oz.

### Country of Origin

Made in the USA with globally sourced materials

### Use For

- Use for solid particulates and liquid mists in concentrations not exceeding 10X PEL/OEL
- Always follow *User Instructions* and use in manners as indicated



### Do Not Use For

- DO NOT use for gases and vapors, oil aerosols, asbestos, arsenic, cadmium, lead, 4,4-methylene dianiline (MDA), or abrasive blasting
- DO NOT use for particulate concentrations exceeding 10X PEL/OEL
- DO NOT use in any manner not indicated in the *User Instructions*

### Approvals and Standards

- NIOSH approved N95 particulate respirator
- Meets NIOSH 42 CFR 84 N95 requirements for a minimum 95% filtration efficiency against solid and liquid aerosols that do not contain oil.
- NIOSH approval number: TC-84A-0007
- Assigned Protection Factor (APF 10) per US OSHA and Canada CSA

## Ordering Information

Description	UPC	ID #	Respirators/ Box	Boxes/Case	Each/Case
Particulate Respirator 8210	50051138464573	70-0706-1439-4	20	8	160

### Time Use Limitation

Replace the respirator when it becomes dirty, damaged, or difficult to breathe through.

### Shelf Life and Storage

- 5 years from the date of manufacture
- Use By date on box in MM/YYYY format
- Store respirators in the original packaging, away from contaminated areas, dust, sunlight, extreme temperatures, excessive moisture, and damaging chemicals
- Store in temperatures between -4°F (-20°C) and +86°F (+30°C) and not exceeding 80% RH

### WARNING!

This respirator helps reduce exposures to certain airborne contaminants. Before use, the wearer must read and understand the *User Instructions* provided as a part of the product packaging. Follow all local regulations. In the U.S., 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 standard Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. **Misuse may result in sickness or death.** For correct use, consult supervisor and the *User Instructions* or call 3M PSD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.



**3M**

### Acceptable Fit Test Protocols

Fit Test Protocol*		Acceptable with this product?
Qualitative Protocols	Saccharin	<input checked="" type="checkbox"/>
	Bitrex™	<input checked="" type="checkbox"/>
	Irritant Smoke	<input type="checkbox"/>
	Isoamyl Acetate	<input type="checkbox"/>
Quantitative Protocols		<input checked="" type="checkbox"/>

\*Refer to OSHA 1910.134



## Particulate Respirator N95

User Instructions  
8210*Plus*/8210*Plus*MX/8210/  
8210MX/07048/8110S



### EN Particulate Respirator N95

*User Instructions*

**IMPORTANT:** Keep these *User Instructions* for reference.



### FR Respirateur N95 contre les particules

*Directives d'utilisation*

**IMPORTANT :** Conserver ces *directives d'utilisation* à titre de référence.



### ES Respirador para partículas N95

*Instrucciones de uso*

**IMPORTANTE:** Conserve estas *Instrucciones* para referencia futura.



### ZH 粒狀物防護口罩, N95

使用說明

重要提示

使用前，使用者必須閱讀和瞭解本說明書。請保留此份使用說明以供參考



### MS Partikulat Respirator, N95

*Arahan Penggunaan*

**PENTING**

Sila simpan *Arahan Penggunaan* ini bagi rujukan masa depan.



3M.com/UI8210

98-0060-0097-4\_4  
34-8719-4197-6  
34-8723-9284-9  
© 3M 2019



# Particulate Respirator N95

## User Instructions 8210Plus/8210PlusMX/ 8210/8210MX/07048/8110S



### WARNING

This respirator helps protect against certain particles. **Misuse may result in sickness or death.**

## IMPORTANT

Before use, wearer must read and understand these *User Instructions*. Keep these instructions for reference.

### Use For

Particles such as those from grinding, sanding, sweeping, sawing, bagging, or processing minerals, coal, iron ore, flour, metal, wood, pollen, and certain other substances. Liquid or non-oil based particles from sprays that do not also emit oil aerosols or vapors. Follow all applicable local regulations. For additional information on 3M use recommendations for this class of respirator please consult the 3M Respirator Selection Guide found on the Personal Safety web site at [www.3M.com/respiratorselector](http://www.3M.com/respiratorselector).

### Do Not Use For

Do not use for gases and vapors, oil aerosols, asbestos, or sandblasting; particulate concentrations that exceed either 10 times the occupational exposure limit or applicable government regulations, whichever is lower. In the United States, do not use when the U.S. Occupational Safety and Health Administration (OSHA) substance specific standards, such as those for arsenic, cadmium, lead in the construction industry, or 4,4'-methylene dianiline (MDA), specify other types of respiratory protection. This respirator does not supply oxygen.

### Biological Particles

This respirator 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.

### Use Instructions

1. Failure to follow all instructions and limitations on the use of this respirator and/or failure to wear this respirator during all times of exposure can reduce respirator effectiveness and **may result in sickness or death.**
2. In the U.S., before occupational use of this respirator, a written respiratory protection program must be implemented meeting all the requirements of OSHA 29 CFR 1910.134, such as training, fit testing, medical evaluation, and applicable OSHA substance specific standards. In Canada, CSA standard Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Follow all applicable local regulations.
3. The particles which can be dangerous to your health include those so small that you cannot see them.
4. Leave the contaminated area immediately and contact supervisor if dizziness, irritation, or other distress occurs.
5. Store the respirator away from contaminated areas when not in use.
6. Inspect respirator before each use to ensure that it is in good operating condition. Examine all the respirator parts for signs of damage including the two headbands, attachment points, nose foam, and noseclip. The respirator should be disposed of immediately upon observation of damaged or missing parts. Filtering facepieces are to be inspected prior to each use to assure there are no holes in the breathing zone other than the punctures around staples and no damage has occurred. Enlarged holes resulting from ripped or torn filter material around staple punctures are considered damage. Immediately replace respirator if damaged. Staple perforations do not affect NIOSH approval (For 8110S only).
7. Conduct a user seal check before each use as specified in the Fitting Instructions section. **If you cannot achieve a proper seal, do not use the respirator.**
8. Dispose of used product in accordance with applicable regulations.

### Use Limitations

1. This respirator does not supply oxygen. Do not use in atmospheres containing less than 19.5% oxygen.
2. Do not use when concentrations of contaminants are immediately dangerous to life and health, are unknown or when concentrations exceed 10 times the permissible exposure limit (PEL) or according to specific OSHA standards or applicable government regulations, whichever is lower.
3. Do not alter, wash, abuse or misuse this respirator.
4. Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the sealing surface of the respirator.
5. Respirators can help protect your lungs against certain airborne contaminants. They will not prevent entry through other routes such as the skin, which would require additional personal protective equipment (PPE).
6. This respirator is designed for occupational/professional use by adults who are properly trained in its use and limitations. This respirator is not designed to be used by children.





- Individuals with a compromised respiratory system, such as asthma or emphysema, should consult a physician and must complete a medical evaluation prior to use.
- When stored in accordance with temperature and humidity conditions specified below, the product may be used until the “use by” date specified on the packaging.

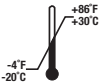
## Storage Conditions and Shelf Life

Before use, store respirators in the original packaging away from contaminated areas, dust, sunlight, extreme temperatures, excessive moisture and damaging chemicals. When stored in accordance with temperature and humidity conditions specified below, the product may be used until the “use by” date specified on packaging. Always inspect product and conduct a user seal check before use as specified in the *User Instructions*. **If you cannot achieve a proper seal, do not use the respirator.**



End of Shelf Life

Use respirators before the “use by” date specified on packaging



Storage Temperature Range

-20°C (-4°F) to +30°C (+86°F).



Storage Maximum Relative Humidity

<80% RH

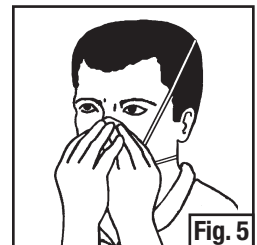
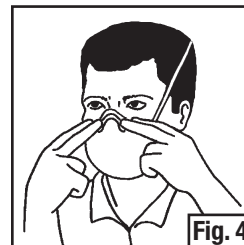
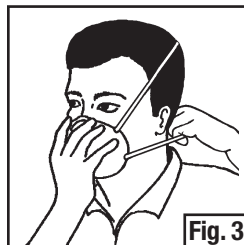
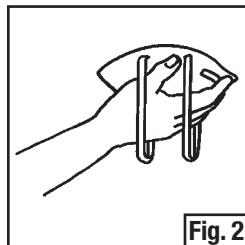
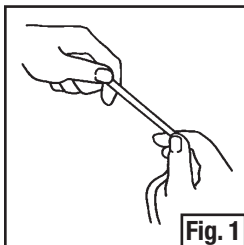
## Time Use Limitation

If respirator becomes damaged, soiled or breathing becomes difficult, leave the contaminated area immediately and replace the respirator.

## Fitting Instructions

**Must be followed each time respirator is worn.**

- Prestretch top and bottom straps before placing respirator on the face (8210/8210MX only) (Fig. 1).
  - Cup the respirator in your hand, with the nosepiece at your fingertips, allowing the headbands to hang freely below your hand (Fig. 2).
  - Position the respirator under your chin with the nosepiece up. Pull the top strap over your head resting it high at the top back of your head. Pull the bottom strap over your head and position it around the neck below the ears (Fig. 3).
  - Place your fingertips from both hands at the top of the metal nosepiece. Using two hands, mold the nose area to the shape of your nose by pushing inward while moving your fingertips down both sides of the nosepiece (Fig. 4).
- ▲ Pinching the nosepiece using one hand may result in improper fit and less effective respirator performance. Use two hands.
- Perform a User Seal Check prior to each wearing. To check the respirator-to-face seal, place both hands completely over the respirator and exhale sharply. Be careful not to disturb the position of the respirator. If air leaks around nose, readjust the nosepiece as described in step 4. If air leaks at the respirator edges, work the straps back along the sides of your head (Fig. 5). **If you CANNOT achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**



## Removal Instructions

See step 3 of *Fitting Instructions* and cup respirator in hand to maintain position on face. Pull bottom strap over head. Still holding respirator in position, pull top strap over head and remove respirator.

This respirator contains no components made from natural rubber latex.

**NIOSH Approved: N95**

At least 95% filtration efficiency against solid and liquid aerosols that do not contain oil.

**3M****8210 Series Respirators**

THESE RESPIRATORS ARE APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

		RESPIRATOR COMPONENTS						
		FILTERING FACEPIECE						
TC-	PROTECTION <sup>1</sup>	8210	8210 PLUS	8110S	7048	8210MX	8210 PLUS MX	CAUTIONS AND LIMITATIONS <sup>2</sup>
84A-0007	N95	X	X	X	X			ABCJMNOP
84A-7762	N95					X		ABCJMNOP
84A-7835	N95						X	ABCJMNOP

**1. PROTECTION****N95 - Particulate Filter** (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.**2. CAUTIONS AND LIMITATIONS**

- A - Not for use in atmospheres containing less than 19.5 percent oxygen.
- B - Not for use in atmospheres immediately dangerous to life or health.
- C - Do not exceed maximum use concentrations established by regulatory standards.
- J - Failure to properly use and maintain this product could result in injury or death.
- M - All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA and other applicable regulations.
- N - never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O - Refer to User's Instructions, and / or maintenance manuals for information on use and maintenance of these respirators.
- P - NIOSH does not evaluate respirators for use as surgical masks.

Rev. F: 07-07-17

# Particulate Respirator 9010, N95

Workers want respirators that are comfortable, lightweight and convenient. The 3M™ Particulate Respirator 9010, N95 is designed to help provide quality, reliable worker protection against certain non-oil based particles in a convenient, flat fold style.

## Features & Benefits

### NIOSH approved N95

- At least 95% filtration efficiency against solid and liquid aerosols that do not contain oil.\* TC-84A-4243

### Vertical flat-fold design

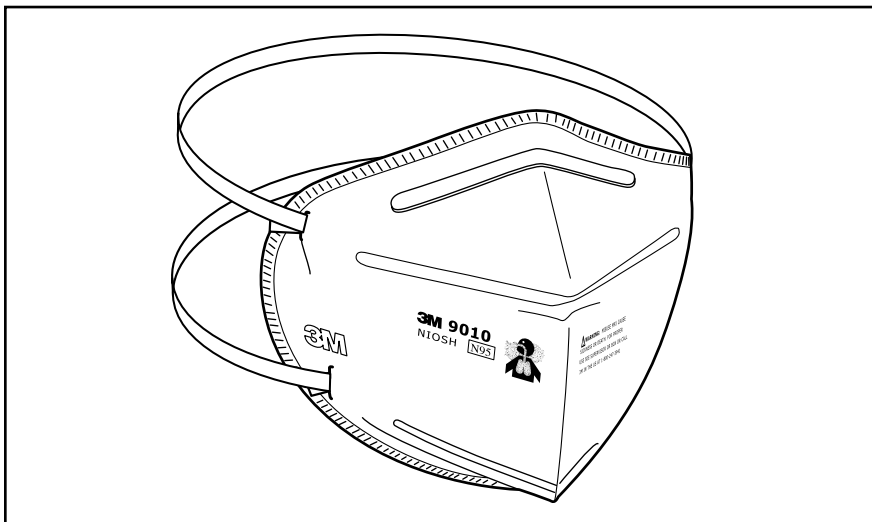
- Low profile for better visibility and compatibility with a wide variety of safety equipment
- Offers convenient storage and portability prior to use

### Soft cover web on inner panel

- Feels comfortable against the skin

### Two strap design and conformable nose clip

- Adjusts easily
- Helps provide a custom fit and secure seal
- Reduces the potential for eyewear fogging



**3M™ Particulate Respirator 9010, N95**

### Individually packaged

- Helps prevent contamination during storage
- Helps increase worker acceptance
- Allows for easy dispensing

### Lightweight construction

- Enhances worker comfort and wear time

### Advanced Electret Media

- Proprietary filter media
- Advanced electrostatically charged microfibers help make breathing easier and cooler

### Suggested Applications

- Grinding
- Sanding
- Sweeping
- Bagging
- General maintenance
- Demolition
- Storm clean-up
- Other emergency relief operations where particulate exposures may be present



## ⚠ WARNING

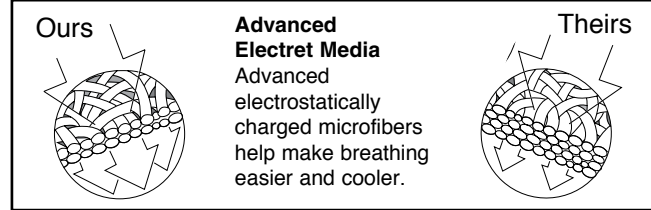
These respirators help reduce exposure to certain particles. **Misuse may result in sickness or death.** Before use, the wearer must read and understand **User Instructions** provided as a part of product packaging. Time use limitations may apply.

\*Tested against particles approximately 0.3 micron in size (mass median aerodynamic diameter) per 42 CFR 84.

## 3M Particulate Respirator 9010, N95

SKU #	Respirators Per Box	Respirators Per Case
XH-0038-1029-4	50	500

## Technologies



### Use For:

- Solids such as those from textile operations, dry chemical handling, surface preparation, food preparation and handling, woodworking, grain handling and milling, processing minerals and coal and certain other substances
- Liquid or non-oil based particles from sprays that do not also emit harmful vapors

### Do Not Use For:

Gases, vapors, including those present in paint spraying operations, oil aerosols, asbestos, arsenic, cadmium, lead, 4,4'-methylenedianiline (MDA) or sandblasting. Aerosol concentrations that exceed 10 times the OSHA PEL, or applicable exposure limits, whichever is lower. This respirator does not supply oxygen.

### Important

Before using these respirators, you must determine the following:

1. The type of contaminant(s) for which the respirator is being selected
2. The concentration level of contaminant(s)
3. Whether the respirator can be properly fitted on the wearer's face. Do not use with beards, on other facial hair, or other conditions that prevent a good seal between the face and the faceseal of the respirator.
4. Before use of these respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134, including training, medical evaluation and fit testing.

### Time Use Limitation

If respirator becomes damaged, soiled, or breathing becomes difficult, leave the contaminated area immediately and replace the respirator.

### Additional Information

This respirator contains no components made from natural rubber latex.

### Biological Particles:

This respirator can help reduce inhalation exposures to certain airborne biological particles (e.g. mold, *bacillus anthracis*, *mycobacterium tuberculosis*, avian influenza viruses, etc.) but cannot eliminate the risk of contracting infection, illness or death. OSHA and other government agencies have not established safe exposure limits for these contaminants.



## 3M™ Aura™ 9300+ Series Particulate Respirators

### Description

The 3M™ Aura™ 9300+ Series Particulate Respirators provide effective respiratory protection for use in industries where workers will be exposed to dust particles and/or non-volatile liquid particles.

- Tested and CE Approved to EN 149:2001+A1:2009
- Sculpted nose panel conforms to the nose and contours of the face and helps improve compatibility with 3M eyewear
- Low Breathing Resistance Filter Technology gives effective filtration with low breathing resistance for consistent high quality performance
- Embossed top panel helps reduce fogging of eyewear
- Innovative chin tab designed for ease of donning and adjustment to help achieve a comfortable fit
- 3M™ Cool Flow™ exhalation valve offers improved comfort in hot humid environments and/or where work is hard and physical\*
- Flatfold, easy to store, proprietary 3-panel design accommodates facial movement for wearer comfort
- Individual hygienic packaging helps protect the respirator from contamination before use
- Large, soft nose foam is comfortable on the skin
- Coloured headbands for easy identification: yellow for FFP1, blue for FFP2 and red for FFP3

### Materials

The following materials are used in the production of the 3M™ Aura™ 9300+ Series Particulate Respirators:

• Straps	Polyisoprene
• Staples	Steel
• Nose Foam	Polyurethane
• Nose Clip	Aluminium
• Filter	Polypropylene
• Valve*	Polypropylene
• Valve diaphragm*	Polyisoprene

These products do not contain components made from natural rubber latex.

Maximum mass of products:

- Unvalved (9310+ & 9320+) = 10g
- Valved (9312+, 9322+ & 9332+) = 15g

\* 9312+, 9322+ and 9332+ models only

### Standards

These products meet the requirements of the European Standard EN 149:2001 + A1:2009, filtering facepiece respirators for use against particles. They should be used to protect the wearer from solid and non-volatile liquid particles only.

Performance tests in this standard include filter penetration; extended exposure (loading) test; flammability; breathing resistance and total inward leakage. A full copy of EN 149:2001+A1:2009 can be purchased from your national standards body.

Designations:

NR = Non reusable (single shift use only)

D = Meets the clogging resistance requirements

### Approvals

These products meet the requirements of the European Community Directive 89/686/EEC (Personal Protective Equipment Directive) and are thus CE marked.

Certification under Article 10, EC Type-Examination and Article 11, EC quality control, has been issued for these products by BSI Product Services, Maylands Avenue, Hemel Hempstead, HP2 4SQ, UK (Notified Body number 0086).

### Applications

These respirators are suitable for use in concentrations of solid and non-volatile liquid particles up to the following limits:

Model	EN 149+A1 Classification	Exhalation Valve	Maximum Use Concentration
9310+	FFP1 NR D	Unvalved	4 x WEL**
9312+	FFP1 NR D	Valved	4 x WEL
9320+	FFP2 NR D	Unvalved	10 x WEL
9322+	FFP2 NR D	Valved	10 x WEL
9332+	FFP3 NR D	Valved	20 x WEL

\*\* Workplace Exposure Limit

Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to hazards.



## Storage and Transportation

The 3M™ Aura™ 9300+ Series Particulate Respirators have a shelf life of 5 years. End of shelf life is marked on the product packaging. Before initial use, always check that the product is within the stated shelf life (use by date). Product should be stored in clean, dry conditions within the temperature range: – 20°C to + 25°C with a maximum relative humidity of <80%. When storing or transporting this product use original packaging provided.

## Disposal

Contaminated products should be disposed as hazardous waste in accordance with national regulations.

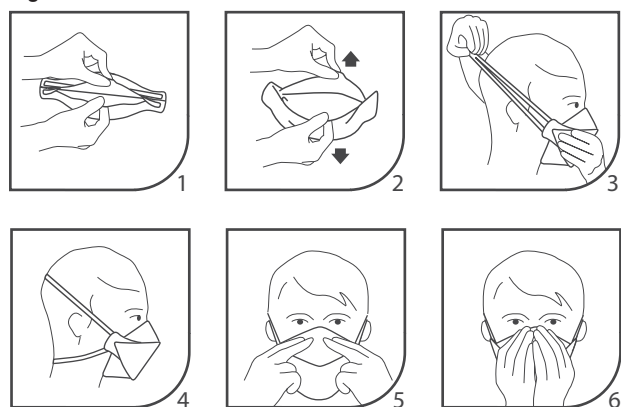
## Fitting Instructions

See Figure 1.

Before fitting device, ensure hands are clean.

1. With reverse side up and using the tab, separate top and bottom panels to form a cup shape. Bend slightly at centre of the noseclip.
2. Ensure both panels are fully unfolded.
3. Cup respirator in one hand with open side towards face. Take both straps in other hand. Hold respirator under chin, with nosepiece up, and pull straps over head.
4. Locate the upper strap across the crown of the head and the lower strap below the ears. Straps must not be twisted. Adjust top and bottom panels for a comfortable fit, ensuring panels and chin tab are not folded in.
5. Using both hands, mould noseclip to the shape of the lower part of the nose to ensure a close fit and good seal. Pinching the noseclip using only one hand may result in less effective respirator performance.
6. The seal of the respirator on the face should be fit-checked before entering the contaminated area.

Figure 1



**3M**

3M Safety Solutions

## Fit Check

1. Cover the front of the respirator with both hands being careful not to disturb its fit.
2. (a) UNVALVED respirator - EXHALE sharply;  
(b) VALVED respirator - INHALE sharply.
3. If air leaks around the nose, re-adjust the noseclip to eliminate leakage. Repeat the above fit check.
4. If air leaks at the respirator edges, work the straps back along the sides of the head to eliminate leakage. Repeat the above fit check.

If you **CANNOT** achieve a proper fit **DO NOT** enter the hazardous area. See your supervisor.

Users should be fit tested in accordance with national requirements.

For information regarding fit testing procedures, please contact 3M.

## ⚠ Warnings and Use Limitations

- Always be sure that the complete product is:
  - Suitable for the application;
  - Fitted correctly;
  - Worn during all periods of exposure;
  - Replaced when necessary.
- Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer from certain airborne contaminants.
- Failure to follow all instructions on the use of these respiratory protection products and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to severe or life threatening illness or permanent disability.
- For suitability and proper use follow local regulations, refer to all information supplied or contact a safety professional/3M representative.
- Before use, the wearer must be trained in use of the complete product in accordance with applicable Health and Safety standards/guidance.
- These products do not contain components made from natural rubber latex.
- These products do not protect against gases/vapours. Do not use in atmospheres containing less than 19.5% oxygen. (3M definition. Individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt).
- Do not use for respiratory protection against atmospheric contaminants/concentrations which are unknown or immediately dangerous to life and health (IDLH).
- **Do not use with beards or other facial hair that may inhibit contact between the face and the product thus preventing a good seal.**
- Leave the contaminated area immediately if:
  - a) Breathing becomes difficult.
  - b) Dizziness or other distress occurs.
- Discard and replace the respirator if it becomes damaged, breathing resistance becomes excessive or at the end of the shift.
- Never alter, modify or repair this device.

In case of intended use in explosive atmospheres, contact 3M.



# Introducing the 3M Aura 9300+ Series Disposable Respirators



## Breathing ease

### Low breathing resistance filter technology

- gives effective filter performance whilst lowering resistance to breathing resulting in improved comfort

### 3M™ Cool Flow™ Valve

- effectively removes heat build up to provide a cooler and more comfortable wear
- removes exhaled air and minimises the risk of fogging eyewear



## Clear vision

### Embossed top panel

- helps reduce the fogging of eyewear



### Sculpted nose panel

- curved, low profile design conforms well to nose and facial contours
- helps provide a good field of vision
- improves compatibility with eyewear



## Convenience

- flat-fold; easy to store when not in use
- hygienic individual packaging helps protect the respirator from contamination before use
- meets EN 149:2001+A1:2009 requirements

### Innovative chin tab

- improves ease of donning and adjustment to help achieve a comfortable fit



## Face and head comfort

### Design and material

- ingenious 3-Panel design fits a wide range of face shapes and sizes to accommodate your facial movements
- collapse resistant; ideal for work in hot humid environments
- stays securely in place, helping to provide a good, comfortable seal
- large soft nose foam material and smooth inner cover web both feel incredibly soft on the skin and help to create a comfortable environment for the face
- extremely lightweight

The Power to Protect Your World<sup>SM</sup>





# Fitting Instructions

Disposable respirators are only effective when there is a good seal between the edges of the respirator and your face. If the seal is poor, protection is compromised as contaminated air can leak in through any gaps.

**These fitting instructions must be followed each time a 3M™ Aura™ 9300+ Series respirator is worn.**



Make sure that your face is clean shaven. Respirators should not be worn with stubble, beards or other facial hair under the area of the face seal as these can prevent a good seal to the face.



Make sure that long hair is tied back and jewellery is removed so that it does not interfere with the seal to the face.



1. With the reverse side up and using the tab, separate the top and bottom panels of the respirator to form a cup shape. Bend slightly at the centre of the noseclip.
2. Ensure that both panels are fully unfolded.



- 3a. Cup the respirator in one hand with the open side towards your face.



- 3b. Take both straps in your other hand. Hold the respirator under your chin, with the nosepiece facing upwards and pull the straps over your head.



4. Locate the upper strap across the crown of the head and the lower strap below your ears. The straps must not be twisted. Adjust the top and bottom panels for a comfortable fit, ensuring that the panels and tab are not folded in.



5. Using both hands, mould the noseclip to the shape of the nose to ensure a close fit and a good seal.

▲ **The respirator may not fit as well if you pinch the noseclip using one hand. Use two hands.**



6. Perform a fit-check by covering the front of the respirator with both hands taking care not to disturb its fit.  
If you're using an unvalved respirator, **exhale** sharply.  
If you're using a valved respirator, **inhale** sharply.  
If air leaks around the nose, readjust the noseclip to eliminate leakage then repeat the fit check. If air leaks at the respirator edges, work the straps back along the sides of the head to eliminate leakage then repeat the fit check. **If you cannot achieve a proper fit, DO NOT enter the hazardous area. Consult your supervisor.**

The Power to Protect Your World<sup>SM</sup>







## EU DECLARATION OF CONFORMITY

This Declaration of Conformity, issued under the sole responsibility of the manufacturer  
**3M United Kingdom PLC of 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT, UK**  
hereby declaring the following Personal Protective Equipment (PPE)

**Product Description: 3M™ Particulate Respirators**

**Product Model/s: C101, C102, C111 and C112**

is/are in conformity with the provisions of the following European Regulation

### **PPE (Personal Protective Equipment) Regulation**

The model is/are in conformity with the provisions of Regulation (EU) 2016/425, including fulfilment of the applicable essential health and safety requirements set out in Annex II, and with the National Standard transposing the harmonised European Standard Number(s):

**EN 149:2001+A1:2009**

and is/are identical to the PPE which is/are the subject of EU type-examination (Module B of Regulation (EU) 2016/425) referenced on the certificate number:

**CE 705690 (Issue Date: 30/09/2019)**

issued by

BSI Group, The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam,  
The Netherlands, Notified Body No. 2797

and is/are subject to the procedures set out in Module D of Regulation (EU) 2016/425 under the surveillance of BSI Group, The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands, Notified Body No. 2797

Signed by: M Thomas

European Regulatory Manager  
Personal Safety Division  
3M United Kingdom PLC

Date: 30<sup>th</sup> September 2019

# EU Type Examination Certificate

This is to certify that:

3M United Kingdom Plc  
3M Centre  
Cain Road  
Bracknell  
Berkshire  
RG12 8HT  
United Kingdom

Holds Certificate Number:

CE 705690

In respect of:

**Respiratory protective devices to EN 149:2001+A1:2009 -  
Filtering half masks to protect against particles  
Models: 3M™ Particulate Respirators  
C101, C102, C111 and C112**

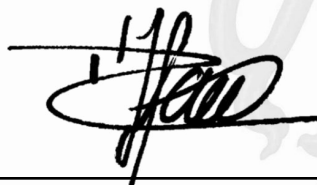
on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified  
Body for the above Regulation  
(Notified Body Number 2797):

Previous Notified Body: BSI 0086

First Issued: 2019-02-28

Latest Issue: 2019-09-30



Drs. Dave Hagenaaars, Managing Director

Effective Date: 2019-09-30

Expiry Date: 2024-02-28

Page: 1 of 3



# EU Type Examination Certificate

No. CE 705690

## Product Specification

**Product Name:** 3M™ Particulate Respirators.

**Product Type:** Filtering half masks to protect against particles.

**Models:** C101 (standard industrial product)  
C102 (standard industrial product)  
C111 (standard industrial product)  
C112 (standard industrial product)

**Technical Specification:** Harmonized European Standard: EN 149:2001+A1:2009.

**Product Description:** The particulate respirators are designed to protect against solid and non-volatile liquid particles. The masks are held on the face by a pair of elasticated straps and models C111 and C112 incorporate a single exhalation valve. The models are single shift devices (denoted by the classification symbol NR) and have the Dolomite Clogging option (denoted by the classification symbol D).

EN 149 Classification:	Model	Classification
	C101 and C111	FFP1 NR D.
	C102 and C112	FFP2 NR D.

## Product Assessment

The product assessments were based on BS EN 149:2001+A1:2009, the English language version of EN 149:2001+A1:2009, respiratory protective devices – filtering half masks to protect against particles, both documents incorporating Corrigendum dated July 2002.

First Issued: 2019-02-28  
Latest Issue: 2019-09-30

Effective Date: 2019-09-30  
Expiry Date: 2024-02-28

# EU Type Examination Certificate

No. CE 705690

### Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. Such variants will be differentiated and the Technical File(s) will be updated with the appropriate information.

### Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the User Information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

### Certificate Administration Details

Technical File Reference: TF0549

### Certificate Amendment Record:

Issue date	Comments	BSI Review No.
February 2019	First issue under PPE Regulation (EU) 2016/425. Note: Products initially approved to Module B of PPE Regulation by a different Notified Body.	0086:19:9704727

### Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type Based on Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate CE 595701.

First Issued: 2019-02-28

Latest Issue: 2019-09-30

Effective Date: 2019-09-30

Expiry Date: 2024-02-28



## 3M™ K100 Series Particulate Respirators

### Description

The 3M™ K100 Series Particulate Respirators provide effective respiratory protection for use in industries where workers will be exposed to dust particles and/or non-volatile liquid particles.

- Tested and CE Approved to EN 149:2001+A1:2009
- Flat design enables product to be easily stored when not in use
- Diamond-shaped front allows the respirator to maintain its shape in hot humid environments
- Single loop strap allows easy adjustment on the face and head
- Exhalation valve offers improved comfort in hot humid environments and/or where work is hard and physical (K111, K112 and K113 models only).
- Coloured noseclip for easy identification: yellow for FFP1, blue for FFP2 and red for FFP3

### Materials

The following materials are used in the K100 Series Particulate Respirators:

• Straps	Thermoplastic Elastomer
• Nose Clip	Steel / Plastic
• Filter	Polypropylene
• Valve*	Polypropylene
• Valve diaphragm*	Polyisoprene
• Nosefoam**	Polyurethane

These products do not contain components made from natural rubber latex.

Maximum mass of products:

- Unvalved (K101 & K102) = 10g
- Valved (K111, K112 & K113) = 15g

### Standards

These products meet the requirements of the European Standard EN149:2001 + A1:2009, filtering facepiece respirators for use against particles. They should be used to protect the wearer from solid and non-volatile liquid particles only.

Performance tests in this standard include filter penetration; extended exposure (loading) test; flammability; breathing resistance and total inward leakage. A full copy of EN 149:2001+A1:2009 can be purchased from your national standards body.

Designations:

NR = Non reusable (single shift use only)

D = Meets the clogging resistance requirements

### Approvals

These products meet the requirements of the European Community Directive 89/686/EEC (Personal Protective Equipment Directive) and are thus CE marked.

Certification under Article 10, EC Type-Examination, has been issued for these products by INSPEC International Limited, 56 Leslie Hough Way, Salford, Greater Manchester M6 6AJ, UK (Notified Body number 0194).

Certification under Article 11, EC quality control, has been issued by BSI Product Services (Notified Body number 0086).

### Applications

These respirators are intended for use in concentrations of solid and non-volatile liquid particles up to the following limits:

Model	EN 149+A1 Classification	Exhalation Valve	Maximum Use Concentration
K101	FFP1 NR D	Unvalved	4 x WEL***
K111	FFP1 NR D	Valved	4 x WEL
K102	FFP2 NR D	Unvalved	10 x WEL
K112	FFP2 NR D	Valved	10 x WEL
K113	FFP3 NR D	Valved	20 x WEL

\*\*\* Workplace Exposure Limit

Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to hazards.

\* K111, K112 & K113 models only.

\*\* K113 model only.

## Storage and Transportation

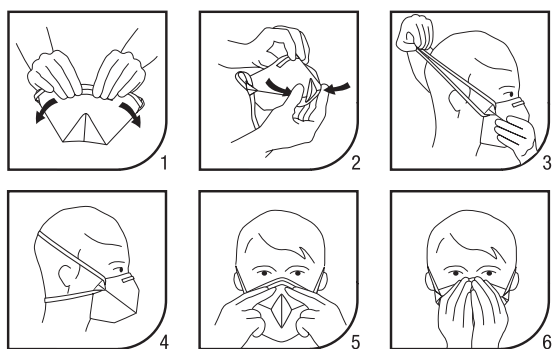
The 3M™ K100 Series Particulate Respirators have a shelf life of 5 years. End of shelf life is marked on the product packaging. Before initial use, always check that the product is within the stated shelf life (use by date). Product should be stored in clean, dry conditions within the temperature range: – 20°C to + 25°C with a maximum relative humidity of <80%. When storing or transporting this product use original packaging provided.

## Disposal

Contaminated products should be disposed of in accordance with national regulations.

## Fitting Instructions

1. With the respirator closed, shape the nosepiece as shown.
2. Open respirator, press in the central front panel and pinch the two points together as shown.
3. Cup respirator in one hand with open side towards face. Take both straps in other hand. Hold respirator under chin, with nosepiece up, and pull straps over head.
4. Locate the upper strap across the crown of the head and the lower strap below the ears. Straps must not be twisted.
5. Using both hands, mould noseclip to the shape of the lower part of the nose to ensure a close fit and good seal. Pinching the noseclip using only one hand may result in less effective respirator performance.
6. The seal of the respirator to the face should be fit-checked before entering the contaminated area.



## Fit Check

1. Cover the front of the respirator with both hands being careful not to disturb its fit.
2. (a) UNVALVED respirator - EXHALE sharply;  
(b) VALVED respirator - INHALE sharply.
3. If air leaks around the nose, re-adjust the noseclip to eliminate leakage. Repeat the above fit check.
4. If air leaks at the respirator edges, work the straps back along the sides of the head to eliminate leakage. Repeat the above fit check.

If you **CANNOT** achieve a proper fit **DO NOT** enter the hazardous area. See your supervisor.

Users should be fit tested in accordance with national requirements.

For information regarding fit testing procedures, please contact 3M.

## ⚠ Warnings and Use Limitations

- Always be sure that the complete product is:
    - Suitable for the application;
    - Fitted correctly;
    - Worn during all periods of exposure;
    - Replaced when necessary.
  - Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer from certain airborne contaminants.
  - Failure to follow all instructions on the use of these respiratory protection products and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to severe or life threatening illness or permanent disability.
  - For suitability and proper use follow local regulations, refer to all information supplied or contact a safety professional/3M representative.
  - Before use, the wearer must be trained in use of the complete product in accordance with applicable Health and Safety standards/guidance.
  - These products do not protect against gases/vapours.
  - Do not use in atmospheres containing less than 19.5% oxygen. (3M definition. Individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt).
  - Do not use for respiratory protection against atmospheric contaminants/concentrations which are unknown or immediately dangerous to life and health (IDLH).
- ⚠ Do not use with beards or other facial hair that may inhibit contact between the face and the product thus preventing a good seal.**
- Leave the contaminated area immediately if:
    - a) Breathing becomes difficult.
    - b) Dizziness or other distress occurs.
  - Discard and replace the respirator if it becomes damaged, breathing resistance becomes excessive or at the end of the shift.
  - Never alter, modify or repair this device.
  - In case of intended use in explosive atmospheres, contact 3M.



3M Occupational Health & Environmental Safety Group

**A**ll products in original packaging and  
QC validated.

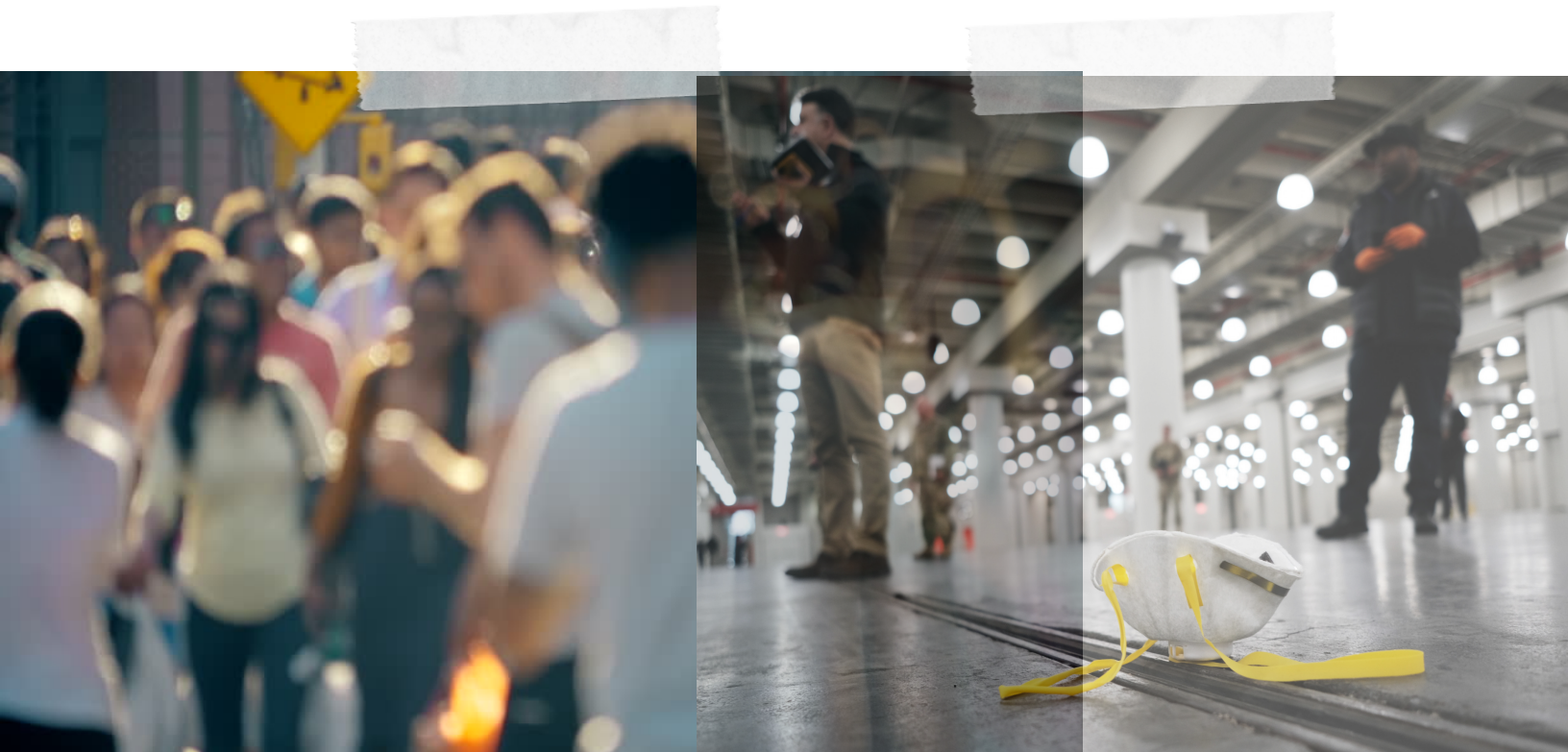
Highest safety standards and security  
thanks to our partner legitimacy verification  
process through Rocket Media LTD.



Together

**Fight the Virus**

**Fight Fraud**



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