

3M 8577

3M Particulate Respirator 8577, P95 User Manual

Model: 8577 | Brand: 3M

PRODUCT OVERVIEW

The 3M Particulate Respirator 8577, P95 is a disposable respirator designed to provide reliable respiratory protection. It offers at least 95 percent filtration efficiency against certain oil and non-oil based particles. A key feature is its carbon layer, which helps reduce exposure to nuisance levels of organic vapors, including those from solvents, degreasers, and resins. This respirator is suitable for various applications such as foundry operations, lab settings, agriculture, petrochemical manufacturing, and undercoating where particles and nuisance levels of organic vapors may be present.

The design incorporates braided headbands and an M-Noseclip for easy adjustment, aiming to reduce pressure points and enhance comfort. It utilizes 3M's proprietary technology with advanced electrostatically charged microfiber filter media, facilitating ease of breathing. The respirator is compatible with a range of protective eyewear and hearing protection. Equipped with a 3M Cool Flow Exhalation Valve, it is particularly well-suited for environments with heat, humidity, or for extended periods of wear, as the valve helps release hot, humid exhaled breath quickly, reducing heat buildup.



Image: Front view of the 3M Particulate Respirator 8577, P95, showing the P95 rating and Cool Flow valve.

KEY FEATURES

- **NIOSH Approved:** Certified for at least 95 percent filtration efficiency against certain oil and non-oil based particles.
- **Organic Vapor Relief:** Features a carbon layer to reduce exposure to nuisance levels of organic vapors.
- **3M Cool Flow Exhalation Valve:** Designed to reduce heat buildup inside the respirator, enhancing comfort during prolonged use.
- **Comfortable Fit:** Braided headbands and soft inner material contribute to user comfort.
- **Advanced Electret Media:** Proprietary filter media engineered for ease of breathing.
- **Adjustable M-Noseclip:** Allows for a customized and secure fit.

NIOSH-Approved

(National Institute for Occupational Safety and Health)

- NIOSH approved P95 particulate respirator
- NIOSH approval number: TC-84A-1166
- Meets NIOSH 42 CFR 84 P95 requirements for a minimum 95% filtration efficiency against solid and liquid aerosols including those containing oil.

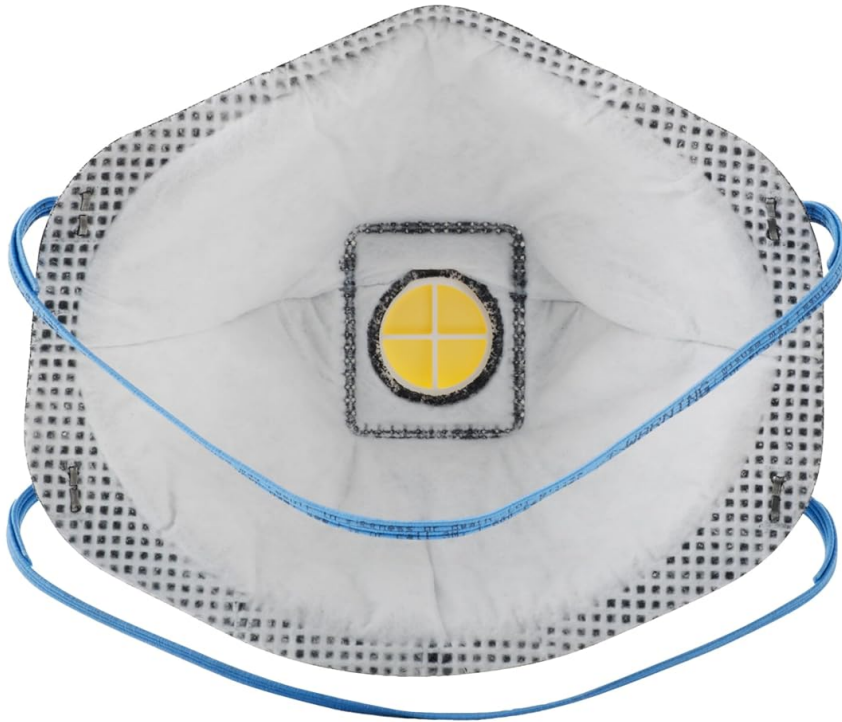
Image: Graphic highlighting the NIOSH approval, P95 rating, and approval number TC-84A-1166.



3M™ Cool Flow™ Exhalation Valve

Helps reduce heat build-up inside the respirator,
enhancing your comfort during long jobs

Image: Close-up of the 3M Cool Flow Exhalation Valve on the respirator, emphasizing its role in reducing heat buildup.



Advanced Filter Media

For easy breathing

Image: Inside view of the respirator, showing the advanced filter media designed for easy breathing.

Product Video



Video: An official 3M video demonstrating the features and benefits of the 3M Particulate Respirator 8577, P95, including its carbon layer for organic vapor relief and the Cool Flow valve for comfort.

SETUP AND FITTING INSTRUCTIONS

Proper fitting of the respirator is crucial for effective protection. Follow these steps to ensure a secure seal:

1. **Inspect Respirator:** Before each use, inspect the respirator for any damage, tears, or deformities. Do not use if damaged.
2. **Position Respirator:** Hold the respirator in your hand with the nosepiece at your fingertips. The headbands should hang freely below your hand.
3. **Place on Face:** Position the respirator under your chin with the nosepiece up.
4. **Secure Headbands:** Pull the top headband over your head, resting it high on the crown of your head. Pull the bottom headband over your head and position it around your neck, below your ears.
5. **Adjust Noseclip:** Using both hands, mold the M-Noseclip to the shape of your nose by pressing downwards and inwards. Ensure a tight seal around the nose bridge.

6. Perform Seal Check:

- For respirators without an exhalation valve: Place both hands completely over the respirator and exhale sharply.
- For respirators with an exhalation valve (like Model 8577): Place both hands completely over the respirator and inhale sharply.

If air leaks around the edges, readjust the noseclip and headbands until a proper seal is achieved. If you cannot achieve a proper seal, do not enter the contaminated area.



Image: Side view of the 3M Particulate Respirator 8577, showing the braided headbands and the M-Noseclip.

OPERATING INSTRUCTIONS AND USAGE

The 3M Particulate Respirator 8577 is intended for industrial/occupational use only and is not for consumer sale or use. It is designed to protect against certain oil and non-oil based particles and to provide nuisance level relief from organic vapors.

- Use this respirator in accordance with all applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI).
- Ensure the respirator is properly fitted and a seal check is performed before entering any contaminated area.
- Do not use this respirator for protection against gases or vapors that are immediately dangerous to life or

health (IDLH).

- Do not use this respirator in atmospheres containing less than 19.5% oxygen.
- The carbon layer provides relief against nuisance levels of organic vapors. "Nuisance levels" refers to concentrations not exceeding OSHA PEL or applicable government occupational exposure limits, whichever is lower.
- Replace the respirator if it becomes damaged, breathing becomes difficult, or if you can smell or taste contaminants.



Certified Equipment List (CEL)

Image: A worker wearing a respirator and safety glasses while performing welding, illustrating a typical industrial application.

MAINTENANCE AND STORAGE

The 3M Particulate Respirator 8577 is a disposable product and requires minimal maintenance. Proper storage is essential to maintain its effectiveness.

- **Disposal:** Dispose of the respirator when it becomes damaged, breathing resistance increases significantly, or at the end of the shift, whichever comes first. Follow local regulations for disposal of contaminated materials.
- **Cleaning:** This respirator is not designed to be cleaned or disinfected. Do not attempt to wash or clean the respirator, as this may compromise its filtration efficiency.
- **Storage:** Store unused respirators in their original packaging in a clean, dry area away from contaminants, extreme temperatures, and direct sunlight.
- **Shelf Life:** Refer to the product packaging for specific shelf life information.

TROUBLESHOOTING

If you experience any issues while using the 3M Particulate Respirator 8577, consider the following:

- **Difficulty Breathing:** If breathing becomes difficult, the filter may be clogged with particles. Replace the respirator immediately.
- **Smelling or Tasting Contaminants:** If you can smell or taste the contaminant, or if irritation occurs, the respirator may not be properly fitted, or its capacity to filter vapors may be exhausted. Immediately leave the

contaminated area and check your fit. If the issue persists, replace the respirator.

- **Discomfort or Pressure Marks:** Ensure the headbands are positioned correctly and not overly tight. Adjust the M-Noseclip gently to conform to your nose without excessive pressure. If discomfort persists, the respirator size or type may not be suitable for your face shape.
- **Respirator Slipping:** Ensure the headbands are securely positioned, with the top band high on the crown of your head and the bottom band below your ears. The M-Noseclip should be molded firmly to your nose.

Always ensure a proper seal check is performed before entering any hazardous environment.

SPECIFICATIONS

Attribute	Value
Brand	3M
Item model number	8577
Filter Class	P95
Size	1 Count (Pack of 10)
Color	White
Number of Items	10
Product Dimensions	5 x 8.75 x 5 inches; 0.69 ounces
Manufacturer	3M
Date First Available	February 17, 2007
What's in the box	Respirator- 10 pack

SAFETY INFORMATION AND WARNINGS

Legal Disclaimer

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and other limitations, and the user must take any action required under any recall, field action, or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, death, or property damage. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.



Image: Information regarding the NIOSH Certified Equipment List (CEL), emphasizing the importance of certified equipment for safety.

WARRANTY AND SUPPORT

Specific warranty details for the 3M Particulate Respirator 8577 are not provided in this manual. For information regarding product warranty, technical support, or any other inquiries, please refer to the official 3M website or contact 3M customer service directly.

You can also find additional resources and product information through the following links:

- [Visit the Official 3M Store on Amazon](#)
- [Download User Manual \(PDF\)](#)