

Technical Specification Sheet

3M™ Particulate Respirator, 8514, N95, with Nuisance Level Organic Vapor Relief†

Key Features

- NIOSH approved N95 rating
- Cake resistant filter media
- Adjustable buckle straps
- Flame resistant per modified ASTM D2859
- Cool Flow™ Exhalation Valve
- Carbon layer for ozone/nuisance level organic vapors†

Material Composition

- Straps – Braided Polyisoprene & Cotton/Polyester
- Buckles – Polypropylene
- Nose Clip – Aluminum
- Nose foam – Polyvinyl Chloride Foam
- Filter – Polypropylene
- Carbon Layer – Activated Carbon
- Shell – Polyester, Flame Retardant
- Valve – Polypropylene & Polyisoprene
- This respirator contains no components made from natural rubber latex
- Approximate weight of product: 1.15 oz
- See the 3M Technical Bulletin - [Cellulose Certification - Filtering Facepiece Respirators](#) for information about which 3M respirators contain cellulose

Country of Origin

Made in USA .

Use For

- Use for solid particulates and liquid mists in concentrations not exceeding 10X PEL/OEL
- Use for certain metal fumes from welding, brazing, cutting, and heating of metals.



- Use for nuisance level organic vapors such as solvents, degreasers, and/or resins
†Nuisance level refers to concentrations not exceeding OSHA PEL or applicable occupational exposure limit whichever is lower.
- 3M recommended for ozone protection up to 10X PEL/OEL, for up to 8 hours of use. Not NIOSH approved for use against ozone.
- Always follow User Instructions and use in manners as indicated

Do Not Use For

- DO NOT use for gases and vapors, 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-0454
- Assigned Protection Factor (APF 10) per US OSHA and Canada CSA

Time Use Limitation

Replace the respirator when it becomes dirty, damaged, or difficult to breathe through. If oil aerosols are present, replace after 8 hours of continuous or intermittent use.

Shelf Life and Storage

- 3 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.



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



Personal Safety Division

3M Center, Building 0235-2W-70
St. Paul, MN 55144-1000
3M.com/workersafety

3M PSD products are occupational use only.

For More Information

Technical Assistance 1-800-243-4630
Hours of Operation: M-Th 8am - 6pm, Fri 8am - 4:30 pm CST
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