NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: 3M
Model Tested: 9542V
Date Tested: October 7, 2020

These findings pertain to the 3M, model 9542V. The packaging and labeling for this product indicate that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator).

Ten respirators were submitted for evaluation. The samples were tested using a modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059. This modified assessment plan can be found here.

No certificate of approval was provided with the samples received; therefore, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency was 99.19% and 95.48%, respectively. All ten respirators measured more than 95%.

While the above-listed product classification has similar performance requirements to NIOSH-approved devices, NIOSH does not have knowledge about the sustained manufacturer quality system and product quality control for these products. NIOSH also does not have knowledge about the product’s handling and exposures after leaving its manufacturer’s control.

This product has head bands/straps. While filter efficiency shows how well the filter media performs, users must ensure a proper fit is achieved.

This assessment is not a part of the NIOSH respirator approval process and will in no way lead to or preclude NIOSH approval through the official approval process. This assessment was developed as an assessment of the filter efficiency for those respirators represented as certified by an international certification authority, other than NIOSH, to support the availability of respiratory protection to US healthcare workers due to the respirator shortage associated with COVID-19. Only particulate filter efficiency was assessed.

The results provided in this letter are specific to the subset of samples that were provided to NPPTL for evaluation.

These results will be used to update the CDC guidance for Crisis Capacity Strategies (during known shortages).
The test method utilized in this assessment is not the NIOSH standard test procedure that is used for certification of respirators. Respirators assessed to this modified test plan do not meet the requirements of STP-0059, and therefore cannot be considered equivalent to N95 respirators that were tested to STP-0059.

Respirators tested may not be representative of all respirators with the same certification mark. NIOSH has no control over suppliers and distributors of respirators certified by other national or international parties.

This assessment is not a confirmation that it conforms with any or all of its specifications in accordance with its certification mark.

This assessment was not a part of the NIOSH approval program. These results do not imply nor preclude a future approval through the NIOSH respirator approval program.
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9542V is a new addition to the 3M™ Disposable Specialty Respirator range. It offers economical respiratory protection against particulates. It also provides additional relief from nuisance levels of organic vapors.

- **Activated Carbon Filter**
  - Provides effective relief from nuisance levels of organic vapors

- **3M™ Cool Flow™ Exhalation Valve**
  - Increased comfort - reduces heat and moisture build up

- **Chin Fold Design**
  - Improved comfort

- **Electret Media**
  - 3M proprietary electrostatically charged microfiber filter media

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Fitting Instructions
1. Place the respirator against your face with the nosepiece across the bridge of your nose. Hold the respirator on your face and position the respirator under the chin.
2. Pull the strap over your head resting it high at the top of your head.
3. Pull the strap under over your head position it around the neck, below the ear.
4. Place the fingers of both hands at the top of the metal nosepiece. Mold the nosepiece to the shape of the nose bridge by pushing inward while moving your fingertips down both sides of the nosepiece. Pinching the nosepiece with only one hand may result in less effective pressure fit.
5. The seal of the respirator on the face should be checked by the wearer prior to entering the work area.
6. Cover the front of the respirator with both hands, being careful not to disturb the position of the respirator.
7. Adjust straps. If the mask moves around the nose bridge, readjust the nosepiece as described in step 4. If air leaks at the respirator edges, work the strap back along the side of your hand. If you cannot achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.
8. It is very important to press the nosepiece firmly to the nose bridge to form a good seal.

Warning
This respirator helps protect against certain particles. Misuse can result in sickness or death. For proper use, see supervisor or User Instructions on package or call INM: 600-970-3055.

Important
Before use, the wearer must read and understand these user instructions. Keep these instructions for reference. See information supplied by the manufacturer.

Use For
Particles such as those from grinding, sanding, sweeping, sawing, bagging or processing silica, asbestos, coal, iron ore, filling metals, flour, wood dust, pollen and certain other substances. Liquid or non-aqueous droplets from sprays that do not also contain acids or harmful vapors. Mists formed by precision or fast cutting and other operations involving heating of metals. Use for nuisance level organic vapors. Above level refers to concentrations below the occupational exposure limit.

Do Not Use For
Do not use for gases, vaporizing, fumes, airways, or for protection against organic vapors above the occupational exposure limit for these substances; particular concentrations that exceed either 10 times the occupational exposure limit applicable government regulations, whichever is lower. This respirator does not supply oxygen.

Use Limitations and Warnings
1. The wearer must first be trained in the proper use and fitted before using this respirator.
2. Do not use this respirator when concentrations of contaminants are immediately dangerous to life or health.
3. Leave the contaminated area immediately if breathing becomes difficult, or dizziness or other distress occurs.
4. Discard and replace respirator if it becomes damaged or breathing resistance becomes excessive.
5. Inspect respirator before each use to ensure it is in good working condition. Exercise all the respirator parts for signs of damage including the two straps, mouthpiece, nose in and valve.
6. Do not alter, wash, abuse or misuse this respirator.
7. Do not use with beards or other facial hair or any conditions that prevent a good seal between the face and the sealing edge of the respirator.
8. Care must be used to keep the respirator well maintained.
9. Takedown and announce the use of this respirator and / or failure to wear this respirator using all times of exposure inadequate respirator effectiveness and may result in illness or permanent disability.
10. Make sure the respirator is stored in a dry or safe condition but do not bury it or move it to the area of discomfort.
11. Outside forces acting upon the respirator may result in injury to the wearer. CAUTION: Care should be taken when using the equipment at low temperatures as excessive moisture may cause residue to freeze.

Storage Conditions and Shelf Life
Short shelf of shipped product is 3 years from date of manufacture when stored within temperature range of 26°C to 32°C and less than 80% relative humidity. This respirator contains no components made from natural rubber latex.
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