

## 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 \(during known shortages\)](#).

## Evaluation of International Respirators

**Test:** Modified TEB-APR-STP-0059

**Date Tested:** October 7, 2020

**Report Prepared:** October 13, 2020

**Manufacturer:** 3M

**Item Tested:** 9542V

**Country of Certification:** China (GB2626-2006)

Pictures have been added to the end of this report.

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	13.3	4.34	4.52	95.48
2	85	12.6	2.77	2.99	97.01
3	85	10.7	1.03	1.03	98.97
4	85	14.4	0.72	0.81	99.19
5	85	14.0	1.42	1.46	98.54
6	85	12.3	1.63	1.63	98.37
7	85	14.0	1.17	1.27	98.73
8	85	13.7	0.96	1.14	98.86
9	85	13.7	1.95	2.22	97.78
10	85	13.0	1.41	1.50	98.50
<b>Minimum Filter Efficiency: 95.48%</b>			<b>Maximum Filter Efficiency: 99.19%</b>		

- 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.





9542V

9542V是3M™随弃式口罩产品的新成员。它提供对颗粒物的经济型呼吸防护。它同时提供额外的减轻异味水平\*有机蒸气的功能。

The 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.

**活性炭过滤层**  
Activated Carbon Filter

- 有效减轻异味水平有机蒸气
- Provides effective relief from nuisance levels of organic vapors

**3M™冷流呼气阀**  
3M™ Cool Flow™ Exhalation Valve

- 减少热量和湿气积聚，提高舒适性
- Increased comfort - reduces heat and moisture build-up

**下巴处无焊缝**  
折叠式设计  
Chin Fold Design

- 佩戴更舒适
- Improved comfort

**静电加载滤棉**  
Electret Media

- 添加有效静电滤棉
- 3M proprietary electrostatically charged microfiber filter media

**熔接针织带**  
Welded Knitted Bands

- 舒适的佩戴体验
- Feels comfortable against skin

\*在指定平均浓度低于职业接触限值。  
\*Nuisance levels refer to concentrations below the occupational exposure limit.

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中国制造， 质量永恒

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Made in China

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400 920 3595  
免费技术服务热线

周一至周五 上午9:00-下午6:00  
周六、日 上午9:00-下午6:00



95-11-201961

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**佩戴说明**

- 面向口罩无鼻夹的一面, 使鼻夹位于口罩上方, 用手扶住口罩固定位置, 将口罩抵住下巴。
- 将上方头带拉过头顶, 置于头顶上方。
- 将下方头带拉过头顶, 置于颈后耳朵下方。
- 将双手手指置于金属鼻夹中部, 一边向内按压一边顺着鼻夹两侧滑动指尖, 直至将鼻夹完全按压成鼻梁形状为止。仅用单手捏口罩鼻夹可能会影响口罩的密封性。
- 在进入工作区域之前, 使用者必须检查口罩与面部的密封性:
  - 用双手掌住口罩, 避免影响口罩在脸上位置。
  - 快速吸气, 如空气从鼻夹处泄露, 应按步骤4重新调整鼻夹; 如空气从口罩边缘泄露, 应重新调整头带, 如果无法取得良好密封, 不要进入污染区域, 请与您的主管联系。
  - 如没有感觉泄露, 可进入工作区工作。

**牢固地按压鼻夹于鼻梁上以形成良好的密封是非常重要的。**

**警告**

本产品只用于对某些颗粒物的呼吸防护, 错误使用可导致疾病甚至死亡。了解正确使用办法, 请参见包装上说明, 请联系您的主管或致电3M公司, 400-920-3595。

**FITTING INSTRUCTIONS**

- 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.
- Pull the top strap over your head resting it high at the top of your head.
- Pull the bottom strap over your head position it around the neck, below the ear.
- Place the fingertips of both hands at the top of the metal nosepiece. Mold the nosepiece to the shape of the nose bridge by pushing inwards while moving your fingertips down both sides of the nosepiece. Pinching the respirator nosepiece using only one hand may result in less effective respirator fit.
- The seal of the respirator on the face should be checked by the wearer prior to entering the work area.
  - Cover the front of the respirator with both hands, being careful not to disturb the position of the respirator.
  - Inhale sharply. If air leaks around the nose bridge, readjust the nosepiece as described in step 4. If air leaks at the respirator edges, work the straps back along the side of your head. If you CANNOT achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.
  - If no leakage is detected, then work may proceed.

**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 3M, 400-920-3595.

8. 在适用的政府法规限制范围内使用。

9. 使用过程中未遵循使用说明和警告佩戴防护口罩, 并且/或未能在暴露于污染物的整个过程中全程佩戴防护口罩, 将降低防护口罩的有效性, 并可能导致疾病, 或对健康造成永久性伤害。

10. 务必避免外力撞击、挤压, 导致口罩变形、损坏, 在骑车、跑步等运动过程中佩戴需特别注意。

11. 本产品内含有的鼻夹和呼气阀等部件如受外力作用, 可能导致人身伤害。

**注意: 当在低温下使用本产品时要小心, 过多的湿气可能导致呼气阀冻结。**

**储存条件和有效期**

未开封产品在保证储存温度在-20°C至+30°C范围内, 相对湿度低于80%的条件下, 保存期为从生产之日起三年。

本产品不含天然橡胶成分。

**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 minerals, silica, coal, iron ore, heavy metal, flour, wood, pollen and certain other substances. Liquid or non-oil based particles from sprays that do not also emit oil aerosols or harmful vapors. Metal fumes produced from welding, brazing, cutting and other operations involving heating of metals. Use for nuisance level organic vapors. Nuisance level refers to concentrations below the occupational exposure limit.

**Do Not Use For**

Do not use for gases, sandblasting, oil aerosols, or for protection against organic vapors above the occupational exposure limit for these substances, particulate concentrations that exceed either 10 times the occupational exposure limit or applicable government regulations, whichever is lower. This respirator does not supply oxygen. Do not use in atmospheres containing less than 19.5% oxygen.

Do not use for particles in concentrations that exceed the maximum allowable concentration required by the applicable regulation and standard. The maximum allowable concentration is obtained by multiplying the Assigned Protection Factor (APF) provided by GB/T 18664 "Selection, Use and Maintenance of Respiratory Protective Equipment" and the permissible Occupational Exposure Limit (OEL) of the contaminant.

**Use Limitations and Warnings**

- The wearer must first be trained in the proper use and fit tested before using this respirator.
- Do not use this respirator when concentrations of contaminants are immediately dangerous to life or health.
- Leave the contaminated area immediately if breathing becomes difficult, or dizziness or other distress occurs.
- Discard and replace respirator if it becomes damaged or breathing resistance becomes excessive.
- Inspect respirator before each use to ensure it is in good working condition. Examine all the respirator parts for signs of damage including the two straps, nosepiece, noseclip and valve.
- Do not alter, wash, abuse or misuse this respirator.
- Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the sealing edge of the respirator.
- Can be used up to the limits specified by applicable government regulations for this product.
- Failure to follow all instructions and warnings 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 illness or permanent disability.
- Make sure the respirator is not crushed or squeezed by an outside force, as this may result in the deformation and damage of the respirator. Especially pay more attention when the wearer is biking, running or conducting other activities.
- Outside forces acting upon the noseclip or valve on 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 valves to freeze.**

**Storage Conditions and Shelf Life**

Shelf life of unopened product is 3 years from date of manufacture when stored within temperature range of -20°C to +30°C and at less than 80% relative humidity.

This respirator contains no components made from natural rubber latex.

# NPPTL COVID-19 Response: International Respirator Assessment



E200552108  
E200319  
AF40010001YH  
20200329

## 9542V

### 自吸过滤式防颗粒物呼吸器 随弃式面罩(口罩)有呼气阀 GB2626-2006 KN95



#### 防伪标签鉴别方法

该防伪标签使用3M独有的变色膜,转动标签便可准确变色  
为保证您购买的3M口罩的品质,请在3M公司授权的经销商处购买带  
本防伪标签的口罩

#### Authentication of anti-counterfeit label for 3M™ Particulate Respirators

The anti-counterfeit label using 3M's unique color film will turn colors when rotated.  
To ensure you get the real 3M respirators, please purchase respirators with  
anti-counterfeit labels from authorized 3M dealers.

#### 鉴别方法 / Identification

3M独有的wC2C变色膜的变色效果鉴别方法如下:

- 正面观察  
正面观察(观察角度的  
0°),防伪膜呈白色。
- 侧面观察  
转动标签观察(观察角度  
90°),防伪膜呈高度物  
质的浅绿色,变色过程  
中无过渡色。

刻开“扫一扫辨真伪”涂层查询产品真伪:

1. 扫码查询:消费者可通过扫描防伪标签上二  
维码查询产品真伪。
2. 同时也可通过拨打400电话或登录3M官方网  
站输入16位数字防伪身份码进行电话或网站  
查询。

非用于医零转售。

XX003623299-2  
34-8710-4348-4



6 912504 935464



保存期(未开封产品):  
自生产之日起三年。  
Shelf life of unopened product is  
3 years from date of manufacture.





最大相对湿度: <80%  
Maximum Relative Humidity: <80%

温度范围: -20°C 至 +30°C  
Temperature Range: -20°C to +30°C

# NPPTL COVID-19 Response: International Respirator Assessment




 **警告**  
本产品只用于对某些颗粒物的呼吸防护。错误使用可导致疾病甚至死亡。欲了解正确使用  
方法,请参见包装上说明,请示您的主管或  
致电3M公司,400 920 3595。

 **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 3M,  
400-920-3595.

产品符合:  
GB 2626-2006 KN95标准

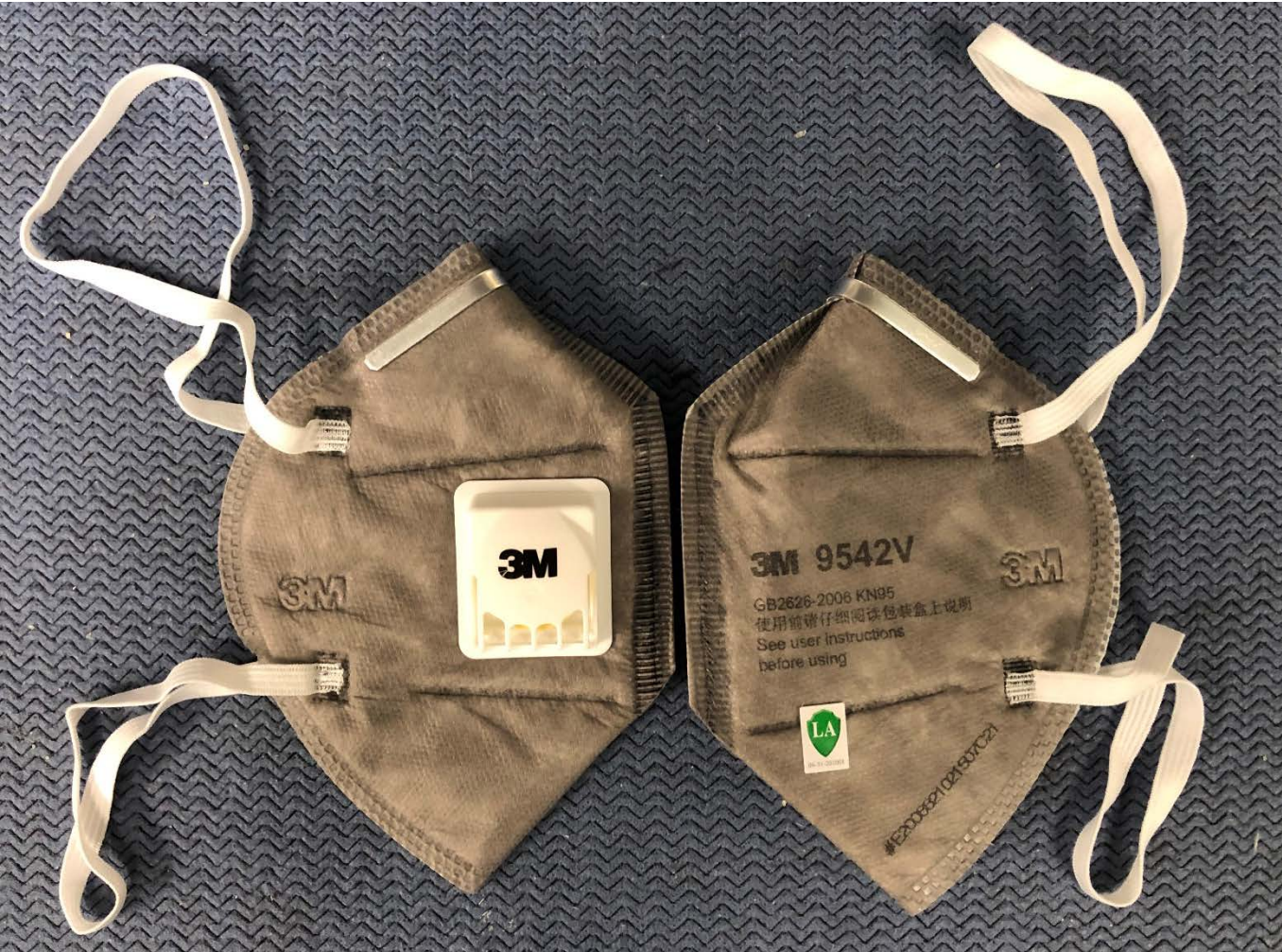
This respirator confirms:  
GB 2626-2006 KN95

  
06-31-201001

XX003823257

3M中国有限公司 上海市田林路222号 邮编: 200233 电话: 86-21-2210 5335  
3M China co.Ltd., 222 Tian Lin Road P.R. China(200233) Tel: 86-21-2210 5335

NPPTL COVID-19 Response: International Respirator Assessment

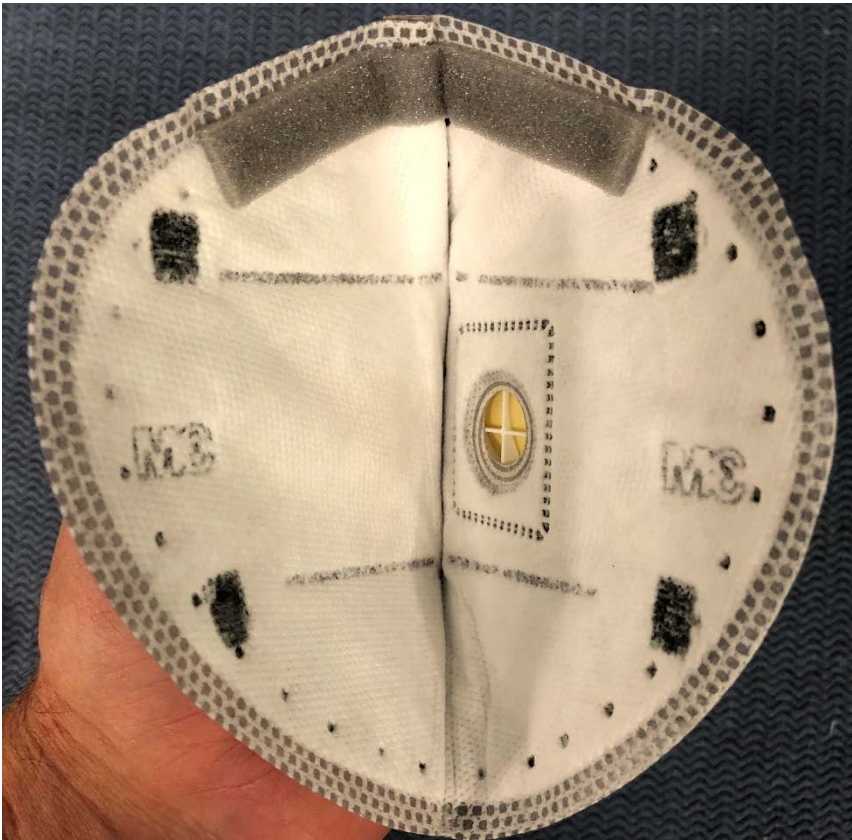




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