

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Xiamen Luan'an Protective Equipment Co., Ltd.

Model Tested: Eversafe KN95 Self-Priming Filter Respirator

Date Tested: May 5, 2020

These findings pertain to the Xiamen Luan'an Protective Equipment Co., Ltd., Eversafe KN95 Self-Priming Filter Respirator. The information included with this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator).

Nine 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 98.16% and 97.56%, respectively. All nine 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.

In addition, this product is an ear loop design. Currently, there are no NIOSH-approved products with ear loops; NIOSH-approved N95s have head bands. Furthermore, limited assessment of ear loop designs indicate difficulty achieving a proper fit. 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 respirator's 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:** May 5, 2020

**Report Prepared:** May 6, 2020

**Manufacturer:** Xiamen Luan'an Protective Equipment Co., Ltd.

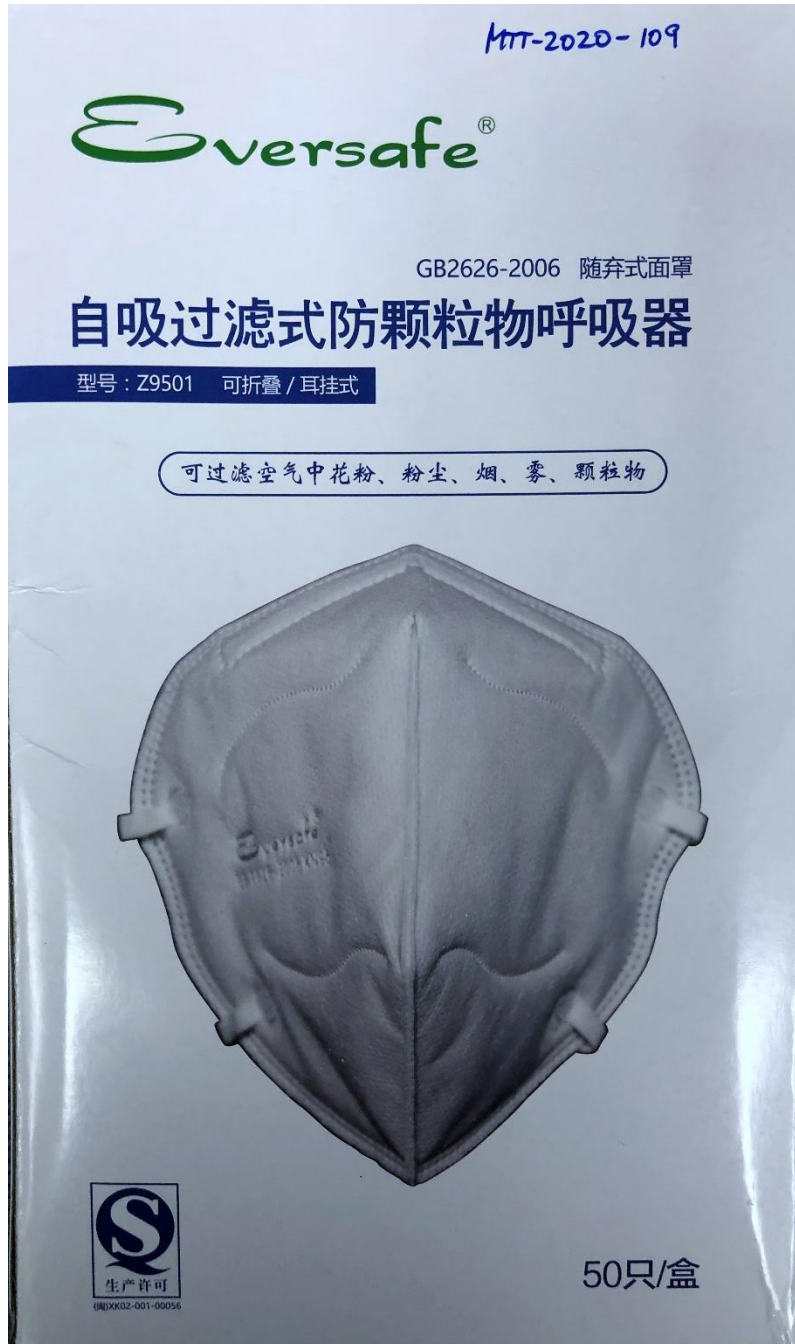
**Item Tested:** Eversafe KN95 Self-Priming Filter Respirator

**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	12.6	1.84	1.84	98.16
2	85	14.1	2.09	2.09	97.91
3	85	12.7	2.15	2.15	97.85
4	85	12.8	2.04	2.04	97.96
5	85	12.2	2.31	2.31	97.69
6	85	13.8	2.44	2.44	97.56
7	85	12.5	1.95	1.95	98.05
8	85	12.8	2.25	2.25	97.75
9	85	13.0	1.96	1.96	98.04
<b>Minimum Filter Efficiency: 97.56</b>			<b>Maximum Filter Efficiency: 98.16</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.



Eversafe®

GB2626-2006 随弃式面罩

# 自吸过滤式防颗粒物呼吸器

型号：Z9501 可折叠 / 耳挂式

可过滤空气中花粉、粉尘、烟、雾、颗粒物

可调节鼻夹，提高适应性与密合度。



选用高效过滤无纺布，  
静电吸附，可过滤雾霾及灰尘

内层选用ES无纺布  
柔软亲肤细腻不刮脸



生产许可

50只/盒



# 立体设计

产品等级: KN95

### 使用范围

该产品可过滤空气中的颗粒物, 粉尘、烟、雾、微生物, 阻隔飞沫、血液、体液、分泌物, 适用于工业场所以及粉尘, 烟, 雾、颗粒物多的环境。

### 产品主要性能

过滤效率: 盐性过滤效率 $\geq 95\%$ 。

呼吸阻力: 总吸气阻力 $\leq 350\text{pa}$ , 总呼气阻力 $\leq 250\text{pa}$ 。

头带: 头带承受的拉力应在10N持续10s。

### 【产品主要结构】

本产品由非织造布、过滤材料、鼻夹、口罩带经裁切、熔接、包装而成。

### 使用方法



按面型选择合适型号, 拉松口罩带, 鼻夹金属软条向上。



戴上口罩并紧贴面部, 配戴好头带, 调校至舒适位置。



将双手的食指及中指由中央顶部向两旁同时按压鼻夹, 直至紧贴鼻梁。



双手尽量遮盖口罩并进行正压及负压测试, 保证口罩的适合性。

### 适合性检验

正压检查: 以双手轻按口罩, 然后刻意呼气, 空气应该不会从口罩边缘泄漏。

负压检查: 以双手轻按口罩, 然后刻意吸气, 口罩中央会稍凹陷。如有空气从口罩边缘进入, 即佩戴不当, 须再次调校头带及鼻夹。

# 立体设计

产品等级: KN95

产品名称: 自吸过滤式防颗粒物呼吸器

产品型号: Z9501

执行标准: GB2626-2006

生产许可证号: (闽)XK02-001-00056

生产日期: 见包装标示处

有效期限: 5年

包装数量: 50只/盒

贮存方法: 请储存在干燥通风的环境, 储存温度为 $-30^{\circ}\text{C}\sim 40^{\circ}\text{C}$ , 相对湿度不大于85%。

制造商: 厦门市奕安防护用品有限公司

注册地址: 厦门市同安区圳南三路79-85号(3#厂房)二楼、三楼、四楼

生产地址: 厦门市同安区圳南三路79-85号(3#厂房)二楼、三楼、四楼

联系电话: 0592-7269618

网址: <http://www.eanxm.com>



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