

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Fujian Sunkinetic Smart Technology Co., Ltd.

Model Tested: KN95 (Sunkinetic Disposable Mask)

Date Tested: December 9, 2020

These findings pertain to the Fujian Sunkinetic Smart Technology Co., Ltd., model KN95 (Sunkinetic Disposable Mask). The packaging for this product indicates 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 51.80% and 31.90%, respectively. All ten respirators measured less than 95% filter efficiency.

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 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:** December 9, 2020

**Report Prepared:** December 9, 2020

**Manufacturer:** Fujian Sunkinetic Smart Technology Co., Ltd.

**Item Tested:** KN95 (Sunkinetic Disposable Mask)

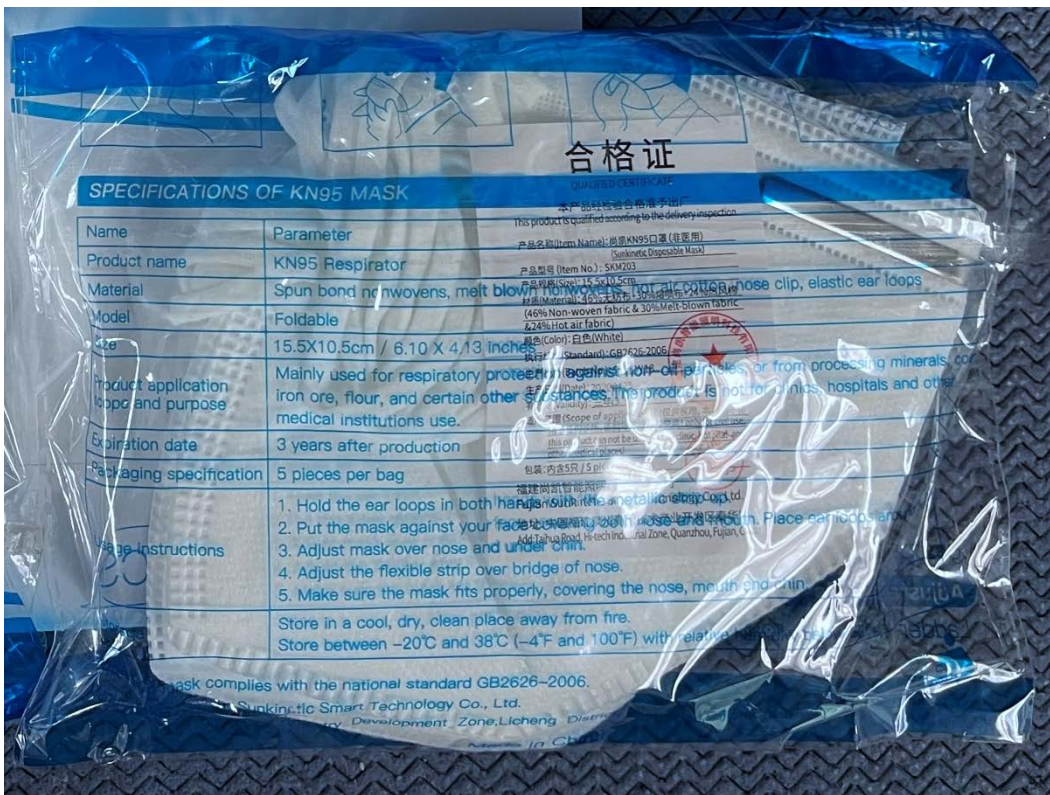
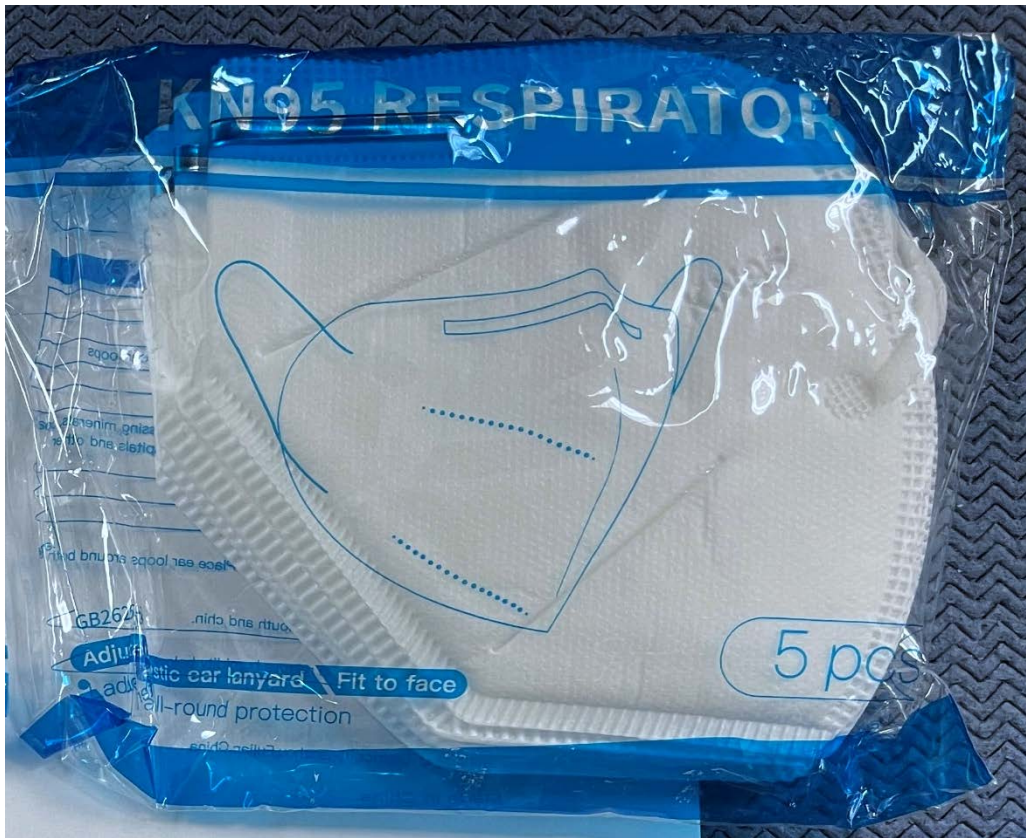
**Country of Certification:** China (GB2626-2006)

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	5.8	67.2	67.3	32.70
2	85	6.1	66.7	66.9	33.10
3	85	6.5	57.9	57.9	42.10
4	85	6.4	65.0	65.1	34.90
5	85	7.3	58.0	58.0	42.00
6	85	8.2	48.2	48.2	51.80
7	85	6.1	68.1	68.1	31.90
8	85	9.0	51.8	51.8	48.20
9	85	8.2	49.5	49.5	50.50
10	85	7.3	54.7	54.7	45.30
<b>Minimum Filter Efficiency: 31.90%</b>			<b>Maximum Filter Efficiency: 51.80%</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.

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**SPECIFICATIONS OF KN95 MASK**

Name	Parameter
Product name	KN95 Respirator
Material	Spun bond nonwovens, melt blown nonwovens, hot air cotton, nose clip, elastic ear loops
Model	Foldable
Size	15.5X10.5cm / 6.10 X 4.13 inches
Product application scope and purpose	Mainly used for respiratory protection against non-oil particles, or from processing mineral iron ore, flour, and certain other substances. The product is not for clinics, hospitals and other medical institutions use.
Expiration date	3 years after production
Packaging specification	5 pieces per bag
Usage instructions	<ol style="list-style-type: none"> <li>1. Hold the ear loops in both hands with the metallic strip up.</li> <li>2. Put the mask against your face covering both nose and mouth. Place ear loops around both ears.</li> <li>3. Adjust mask over nose and under chin.</li> <li>4. Adjust the flexible strip over bridge of nose.</li> <li>5. Make sure the mask fits properly, covering the nose, mouth and chin.</li> </ol>
Storage	Store in a cool, dry, clean place away from fire. Store between -20°C and 38°C (-4°F and 100°F) with relative humidity below 80%.

This KN95 mask complies with the national standard GB2626-2006.  
 Manufacture: Fujian Sunkinetic Smart Technology Co., Ltd.  
 Add.: Taihua Road, Hi-Tech Industry Development Zone, Licheng District, Quanzhou, Fujian, China  
 Made in China



# 合格证

QUALIFIED CERTIFICATE

本产品经检验合格准予出厂

This product is qualified according to the delivery inspection

产品名称(Item Name): 尚凯KN95口罩(非医用)  
(Sunkinetic Disposable Mask)

产品型号(Item No.): SKM203

产品规格(Size): 15.5x10.5cm

材质(Material): 46%无纺布+30%熔喷布+24%热风棉  
(46% Non-woven fabric & 30% Melt-blown fabric  
& 24% Hot air fabric)

颜色(Color): 白色(White)

执行标准(Standard): GB2626-2006

生产批号(Batch No.): SK20W18

生产日期(Date): 20200425

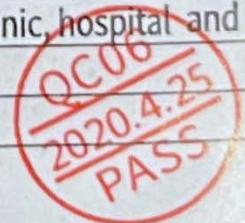
有效期(Validity): 三年(3 Years)

适用范围(Scope of application): 仅供民用, 本产品不得  
用于任何诊所、医院等医疗场所使用! only for civil use,  
this product can not be used in any clinic, hospital and  
other medical places!

包装: 内含5只 / 5 pieces per bag.

福建尚凯智能照明科技有限公司  
Fujian Sunkinetic Smart Technology Co., Ltd.

地址: 中国福建泉州高新技术产业开发区泰华路  
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