

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Sensetronics Company Limited

Model Tested: KN95 -S-01

Date Tested: August 4, 2020

These findings pertain to the Sensetronics Company Limited, Model KN95 -S-01. 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 97.40% and 96.33%, respectively. No respirators measured less 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 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:** August 4, 2020

**Report Prepared:** August 4, 2020

**Manufacturer:** Sensetronics Company Limited

**Item Tested:** KN95 -S-01

**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	11.5	3.11	3.11	96.89
2	85	11.0	3.60	3.06	96.94
3	85	10.8	3.05	3.05	96.95
4	85	12.5	3.39	3.39	96.61
5	85	11.6	3.67	3.67	96.33
6	85	12.4	2.73	2.73	97.27
7	85	12.2	2.60	2.60	97.40
8	85	11.8	3.31	3.31	96.69
9	85	12.8	2.69	2.69	97.31
10	85	10.0	2.72	2.72	97.28
<b>Minimum Filter Efficiency: 96.33%</b>			<b>Maximum Filter Efficiency: 97.40%</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.



- 1 Hold two ear loops in both hands and pull it outwards to open the mask
- 2 Keeping the nose clip upwards put the mask inside against your face
- 3 Pull the ear loops and put it behind the ears and secure the mask on your face
- 4 Press the nose clip tightly until the clip shapes against the nose and stay comfortably
- 5 Check the mask fits in your face correctly and comfortably

Important notes:

- Wash hands before put on the mask
- Do not use if the package is contaminated
- Expiry: This product expires in 3 years from manufactured date. Check manufactured date on box
- Storage; Store at -5°F ~ 104°F (-20°C~40°C) and humidity below 80%

Model No.: KN95-S-01



Protect you from:

Dust

Droplets

Smog

Pollen

This product is not suitable for toxic gases

**SENSETRONICS COMPANY LIMITED**

REGISTERED ADDRESS

ROOM 304, BLOCK A

No. 6 GONGYE ROAD,

FUHAI TANGWEI VILLAGE

BAOAN DISTRICT, SHENZHEN

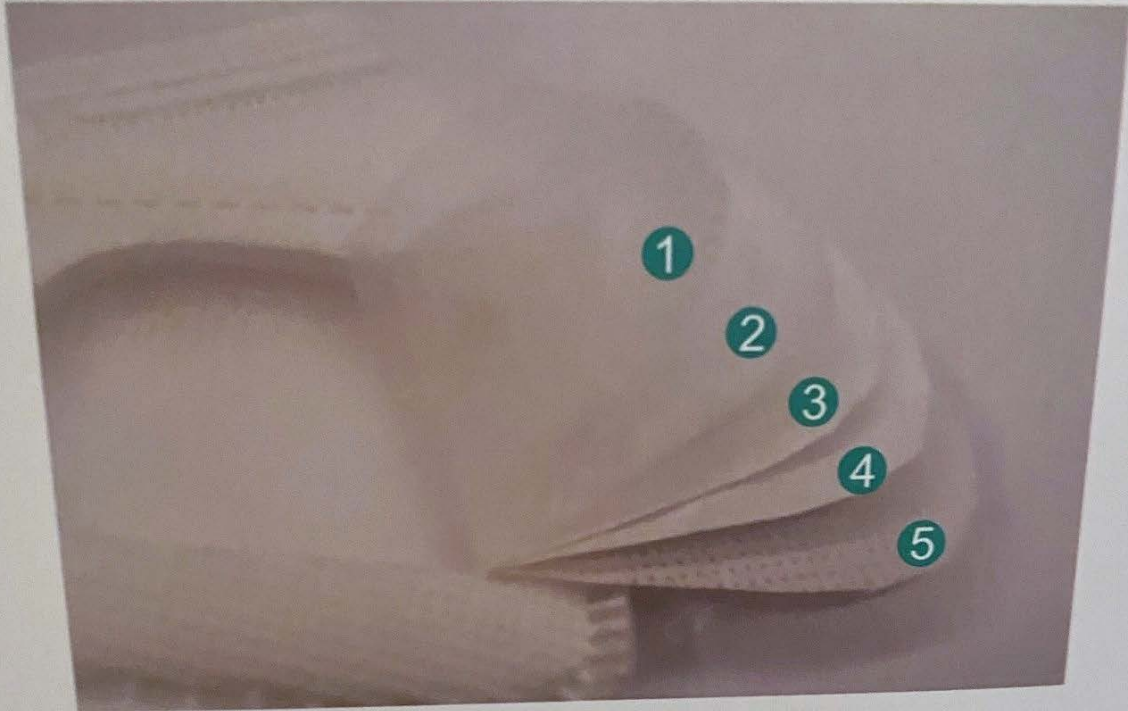
P R OF CHINA

TEL: +86 755 23055520

IMPLEMENTATION STANDARDS: GB2626-2006

MADE IN CHINA

Model No.: KN95-S-1



- ① Thick non-woven outer layer fabric
- ② ③ Two layers of melt blown fabric for  
Double protection
- ④ Non-woven inner Sponge fabric
- ⑤ Thin Non-woven inner layer fabric

Model No.: KN95-S-01



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