

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Shenzhen Dinglixun Electronic Co., Ltd.

Model Tested: SDL-KN95-01

Date Tested: December 21, 2020

These findings pertain to the Shenzhen Dinglixun Electronic Co., Ltd., model SDL-KN95-01. 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 24.80% and 13.20%, 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 21, 2020

**Report Prepared:** December 21, 2020

**Manufacturer:** Shenzhen Dinglixun Electronic Co., Ltd.

**Item Tested:** SDL-KN95-01

**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	2.3	83.1	85.2	14.80
2	85	3.2	73.7	75.2	24.80
3	85	2.1	76.9	77.6	22.40
4	85	3.7	75.7	76.0	24.00
5	85	2.7	85.2	86.8	13.20
6	85	2.2	77.4	78.6	21.40
7	85	3.6	76.1	76.2	23.80
8	85	3.3	77.2	77.4	22.60
9	85	2.4	80.3	80.3	19.70
10	85	3.1	78.7	78.7	21.30
<b>Minimum Filter Efficiency: 13.20%</b>			<b>Maximum Filter Efficiency: 24.80%</b>		

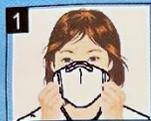
- The test method utilized in this assessment is not the NIOSH standard test procedure that is used for certification of respirators. Respirators assessed to this modified test plan do not meet the requirements of STP-0059, and therefore cannot be considered equivalent to N95 respirators that were tested 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.



**KN95 PROTECTIVE MASK  
(NON MEDICAL)**

**MODEL NAME: SDL-KN95-01**

**Standard: GB2626-2006**



1. Place the respirator over the mouth and nose, then keep it under the chin with the nosepiece up;



2. Pull the top strap over your head by resting it high at the top of your head;



3. Pull the bottom strap over your head and put it around the neck below the ears;



4. Place the fingertips from both hands at the top of the nosepiece. Move the nosepiece to the shape of the nose by pushing inwards while moving your fingertips down both sides of the nosepiece. Pinch the respirator nosepiece by using one hand may result in less effective respirator performance.



5. Place both hands completely over the respirator and inhale sharply. Be careful not to disturb the position of the respirator. A negative pressure should be felt inside the respirator. If air leaks around nose, readjust the nosepiece as described in step 1 to 4.

Storage: -4°F~100°F, humidity<80%

Shelf life: 12 months

Production date:

2020-04-20

Made by / Manufactured by:

SHENZHEN DINGLIXUN ELECTRONIC CO.,LTD.

Floor 3, of building D1, Floor 3 of zhenxing mould factory, Qiangrongdong industrial zone, No. 723 of zhoushi road, jiuwei community, Hangcheng street, Baoan district, Shenzhen, Guangdong, China

ISO 9001  
MADE IN CHINA

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CERTIFICATE (NON MEDICAL)	
Product Name:	KN95 PROTECTIVE MASK
Model Name:	SDL-KN95-01
Standard:	GB2626-2006
Quantity:	5pcs
Shelf life:	12months
Production Date:	2020 -04- 20
Inspection Result:	

**SHENZHEN DINGLIXUN ELECTRONIC CO., LTD**  
Address: Floor3, of building D1, Fllor 3 of zhenxing mould factory, Qiangrongdong industrial zone, No.723 of zhoushiroad, Jiuwei community, Hangcheng street, Baoan district, Shenzhen

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