

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: PUTIAN JINLI.LAISI CLOTHING & ACCESSORIES CO., LTD.

Model Tested: KN95 Mask

Date Tested: September 16, 2020

These findings pertain to the PUTIAN JINLI.LAISI CLOTHING & ACCESSORIES CO., LTD., model KN95 Mask. 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 89.50% and 48.50%, respectively. All ten 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:** September 16, 2020

**Report Prepared:** September 16, 2020

**Manufacturer:** PUTIAN JINLI.LAISI CLOTHING & ACCESSORIES CO., LTD.

**Item Tested:** KN95 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	9.6	10.5	10.5	89.50
2	85	6.1	31.8	32.3	67.70
3	85	5.5	51.5	51.5	48.50
4	85	7.4	18.4	18.4	81.60
5	85	7.0	19.3	19.3	80.70
6	85	6.0	22.7	22.7	77.30
7	85	7.3	18.4	18.4	81.60
8	85	7.9	14.5	14.5	85.50
9	85	5.1	31.1	31.1	68.90
10	85	6.9	11.0	11.0	89.00
<b>Minimum Filter Efficiency: 48.50%</b>			<b>Maximum Filter Efficiency: 89.50%</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.



**JINLILAI SI**

**KN95 MASK**

Model No.: KN95 MASK

Product performance:

1. The use of ultra-fine fiber electrostatic melt-blown cloth composite ES hot air cotton. PP spun-bonded non-woven fabric, forming a four-filter layer, more effective filtration of harmful substances.
2. The 3D shape is designed according to the engineering of human faces to ensure the tightness and increased the breathing volume of the mask. This greatly improves the air permeability and make the wearing and breathing more comfortable.

Instruction for use:

1. Open the packaging and place the mask over your nose and mouth.
2. Pull the side straps over your left and right ears.
3. Adjust the nose clip around the bridge of your nose and press it down to fit the shape of your nose.

Storing condition: climatic condition below the temperature <math>< 80^{\circ}\text{C}</math>. Store the mask in a non-corrosive, ventilated, environment.

Friendly reminder: once unpacked, be careful to seal the mouth of the bag.

Using range:

Suitable for protecting from dust, PM2.5 haze particles, influenza bacteria, and other harmful particles.

**CERTIFICATE OF QUALITY**

Manufacturer: PUTIAN JINLI.LAISI CLOTHING & ACCESSORIES CO., LTD.

Add: FENGSHAN VILLAGE, HUANGSHI INDUSTRIAL PARK, LICHENG DISTRICT, PUTIAN CITY

Lot Code: 202000111

Date of production: 2020/04/01

Date of inspection: 2020/04/01

Inspector: 02

Valid for 2 years

Package: 2 Masks per pack

Chinese standard: GB2626-2006

Made in China

**Instruction for use:**



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CERTIFICATE OF QUALITY 合格证	
Product name: Disposable protective mask 产品名称: 一次性防护口罩	
Model: KN95 型号: KN95	
Product specification: 14CM*22CM 产品规格: 14CM*22CM	
Package: 2 masks per pack 包装规格: 每包 2 个	
Execution standard: GB2626-2006 执行标准: GB2626-2006	
Lot code: 202000111 生产批号: 202000111	
Date of production: 2020/04/01 生产日期: 2020/04/01	
Validity: 2 years 有效期: 2 年	
Date of inspection: 2020/04/01 检验日期: 2020/04/01	
Inspector: 02 质检员: 02	
Manufacturer: PUTIAN JINLI.LAISI CLOTHING & ACCESSORIES CO., LTD. 制造商: 福建省金利莱斯服饰织造有限公司	
Address: FENGSHAN VILLAGE, HUANGSHI INDUSTRIAL PARK, LICHENG DISTRICT, PUTIAN CITY 地址: 福建省莆田市荔城区黄石工业园区凤山村	



MADE IN CHINA

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