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).
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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)

<table>
<thead>
<tr>
<th>Filter</th>
<th>Flow Rate (LPM)</th>
<th>Initial Filter Resistance (mmH2O)</th>
<th>Initial Percent Leakage (%)</th>
<th>Maximum Percent Leakage (%)</th>
<th>Filter Efficiency (%)</th>
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<tbody>
<tr>
<td>1</td>
<td>85</td>
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<td>6.9</td>
<td>11.0</td>
<td>11.0</td>
<td>89.00</td>
</tr>
</tbody>
</table>

Minimum Filter Efficiency: 48.50%  Maximum Filter Efficiency: 89.50%

- 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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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 makes 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 blow the temperature <80°C. Store the mask in a non-corrosive, ventilated environment.

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

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

CERTIFICATE OF QUALITY

Manufacturer: PUTIAN JINLILAISI 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
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