NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Sanjiao Oral Health Co., Ltd.
Model Tested: KN95 Daily Protective Face Mask
Date Tested: May 18, 2020

These findings pertain to the Sanjiao Oral Health Co., Ltd., KN95 Daily Protective Face Mask. While the product packaging indicates KN95, there is no indication of what standard this product meets.

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](#).

A certificate of approval was provided with the samples received; however, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency was 98.50% and 89.10%, respectively. Eight respirators measured more than 95%. Two 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 respirator’s 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: May 18, 2020
Report Prepared: May 18, 2020
Manufacturer: Sanjiao Oral Health Co., Ltd.
Item Tested: KN95 Daily Protective Face Mask
Country of Certification: China (UNKNOWN)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>15.0</td>
<td>9.59</td>
<td>9.59</td>
<td>90.41</td>
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<tr>
<td>2</td>
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<td>15.2</td>
<td>1.84</td>
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<td>3</td>
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<td>13.1</td>
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<tr>
<td>4</td>
<td>85</td>
<td>13.3</td>
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<tr>
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<td>11.5</td>
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<td>10.9</td>
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<tr>
<td>6</td>
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<td>17.3</td>
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<td>10</td>
<td>85</td>
<td>15.9</td>
<td>1.60</td>
<td>1.62</td>
<td>98.38</td>
</tr>
</tbody>
</table>

Minimum Filter Efficiency: 89.10  Maximum Filter Efficiency: 98.50

- 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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[HOW TO USE]
1. Open the mask flat
2. Face the side of the mask without nose clip, and make the nose clip above the mask
3. Pull the belt behind the ear
4. Press the nose clip inward from the middle to both sides to fit the shape of the nose bridge. One-handed pinching is not recommended as it may reduce the tightness.
5. Checked the tightness before entering the working area.

[WARNINGS]
1. Unpack when using. Do not use if the package is damaged.
2. Do not wash
3. Do not use in the environment of oily particles
4. Use time depends on the personal usage and environment. In case of dyspnea or discomfort, or increased respiratory resistance, or damaged mask, please replace it immediately
5. Store in a well-ventilated, dark and dry environment, keep away from fire and pollution.
6. Storage temperature -20°C ~ 38°C, storage humidity less than 80%

[Production date and batch number] See packaging
[Validity Period] Two years
[Address] Building 1, 4th Street, Huli Industrial Area, Xian’gang, Simapu, Chaonan, Shantou, Guangdong, China
[TEL.] 0086-754-87711999
[Website] http://www.3jiao.com
[FDA Registration No.]: 3007305436
MADE IN CHINA
NPPTL COVID-19 Response: International Respirator Assessment

KN95 Daily Protective Face Mask

[HOW TO USE]
1. Open the mask flap.
2. Face the side of the mask without nose clip, and make the nose clip above the mask.
3. Pull the belt behind the ear.
4. Press the nose clip inward from the middle to both sides to fit the shape of the nose bridge. One-handed pinching is not recommended as it may reduce the tightness.
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