NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Nantong Gold-Sufang Weaving Co. Ltd.
Model Tested: KN95 Face Mask
Date Tested: April 22, 2020

These findings pertain to the Nantong Gold-Sufang Weaving Co. Ltd., model KN95 Face Mask. The product information provided with 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.

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

The maximum and minimum filter efficiency was 93.39% and 84.20%, 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 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: April 22, 2020

Report Prepared: April 23, 2020

Manufacturer: Nantong Gold-Sufang Weaving Co. Ltd.

Item Tested: KN95 Face 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>
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<td>12.9</td>
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<td>14.4</td>
<td>10.30</td>
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<td>89.70</td>
</tr>
</tbody>
</table>

Minimum Filter Efficiency: 84.20  Maximum Filter Efficiency: 93.39

- 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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**KN95 FACE MASK**

**PROPER WAY TO WEAR IT**
1. Hold one ear band in each hand to make sure the nose clip is up;
2. Put the mask on, place the Chin under the mask, and put the ear straps behind your ears;
3. Adjust to comfortable position, make mask close to face;
4. Press the index and middle fingers of both hands against the bridge of the nose;
5. For Air tightness testing.

**POINTS TO NOTE**
1. This product is suitable for the civil daily environment air pollution protection;
2. This product does not produce oxidation, can not be used to prevent toxic gases in the environment;
3. For young children, please wear under adult supervision;
4. Please store this product in a clean, sanitary, ventilated and dry environment.

Made in China

**ANTIBACTERIAL / ANTI-DUST / ANTI-SMOG**
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