NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Qingdao Wopuaisi Daily Necessities Co., Ltd.
Model Tested: KN95 Protective Mask
Date Tested: February 10, 2021

These findings pertain to the Qingdao Wopuaisi Daily Necessities Co., Ltd., model KN95 Protective Mask. The packaging for 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](#).

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 94.20% and 86.70%, 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)](#).
NPPTL COVID-19 Response: International Respirator Assessment

Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059
Date Tested: February 10, 2021
Report Prepared: February 11, 2021
Manufacturer: Qingdao Wopuaisi Daily Necessities Co., Ltd.
Item Tested: KN95 Protective 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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>12.4</td>
<td>12.1</td>
<td>12.4</td>
<td>87.60</td>
</tr>
<tr>
<td>2</td>
<td>85</td>
<td>20.4</td>
<td>8.1</td>
<td>8.1</td>
<td>91.90</td>
</tr>
<tr>
<td>3</td>
<td>85</td>
<td>15.4</td>
<td>5.8</td>
<td>5.8</td>
<td>94.20</td>
</tr>
<tr>
<td>4</td>
<td>85</td>
<td>19.1</td>
<td>13.3</td>
<td>13.3</td>
<td>86.70</td>
</tr>
<tr>
<td>5</td>
<td>85</td>
<td>14.6</td>
<td>12.6</td>
<td>12.6</td>
<td>87.40</td>
</tr>
<tr>
<td>6</td>
<td>85</td>
<td>13.3</td>
<td>11.4</td>
<td>11.4</td>
<td>88.60</td>
</tr>
<tr>
<td>7</td>
<td>85</td>
<td>14.5</td>
<td>12.6</td>
<td>12.6</td>
<td>87.40</td>
</tr>
<tr>
<td>8</td>
<td>85</td>
<td>16.5</td>
<td>13.3</td>
<td>13.3</td>
<td>86.70</td>
</tr>
<tr>
<td>9</td>
<td>85</td>
<td>19.7</td>
<td>12.6</td>
<td>12.6</td>
<td>87.40</td>
</tr>
<tr>
<td>10</td>
<td>85</td>
<td>17.1</td>
<td>13.3</td>
<td>13.3</td>
<td>86.70</td>
</tr>
</tbody>
</table>

Minimum Filter Efficiency: 86.70%  Maximum Filter Efficiency: 94.20%

- 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 Face Mask

Product Information:
- Name: KN95 Protective Face Mask
- Manufacturer: OPSCN
- Specifications:
  -执行标准: GB2626-2006
  -产品尺寸: 10.5*16cm
  -主要原料: 无纺布68.75%, 涤纶31.25%
  -产品颜色: 白色
  -产品批号: 200401
  -生产日期: 2020年4月2日
  -使用周期: 一次性
  -有效期: 三年
  -生产厂商: 青岛沃普艾斯化妆品有限公司
  -生产地址: 青岛市莱西市望山镇海逸海诺
  -联系电话: 400-696-1525

Made in China
NPPTL COVID-19 Response: International Respirator Assessment
NPPTL COVID-19 Response: International Respirator Assessment
NPPTL COVID-19 Response: International Respirator Assessment