NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Aiyinmei Co., Ltd.  
Model Tested: AYM-KN95  
Date Tested: May 14, 2020

These findings pertain to the Guangzhou Aiyinmei Co., Ltd., AYM-KN95. 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 68.80% and 38.90%, 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:** May 14, 2020

**Report Prepared:** May 16, 2020

**Manufacturer:** Guangzhou Aiyinmei Co., Ltd.

**Item Tested:** AYM-KN95

**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>10.9</td>
<td>42.5</td>
<td>42.5</td>
<td>57.50</td>
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<td>2</td>
<td>85</td>
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<td>31.7</td>
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<td>3</td>
<td>85</td>
<td>8.2</td>
<td>57.8</td>
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<td>5</td>
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<td>11.0</td>
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<td>6</td>
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<tr>
<td>10</td>
<td>85</td>
<td>7.3</td>
<td>61.1</td>
<td>61.1</td>
<td>38.90</td>
</tr>
</tbody>
</table>

Minimum Filter Efficiency: 38.90  Maximum Filter Efficiency: 68.80

- 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.
NPPTL COVID-19 Response: International Respirator Assessment
A&F KN95
A&F Self-Priming Filter Anti-Particulate Respirator Disposable

Against Non Oil-Based Particles Filtering Efficiency ≥95%

Product Performance:
1. Superfine fiber electrostatic melt-blown non-woven composite E5 hot air cotton and PP spunbond non-woven fabric form a four-layer filter to filter harmful substances more effectively, in line with the national standard KN95 level.
2. The masks are designed to fit the contour of the human face, while ensuring closeness of fit, greatly improving breathability and making the mask more comfortable.

How to wear:
Open the mask with the bridge of the nose on top. After wearing, press the bridge of the nose tightly.

Use Range:
Suitable for protection against harmful particulate matter, such as dust, PM2.5 haze, particulates, influenza, bacterial droplets, pollen, etc.

This product has valid and cold protection.

Product Information:
Product Name: A&F Self-Priming Filter Anti-Particulate Respirator Disposable
Model Number: AYM-KN95

Exacting Standard: GB2626-2006 KN95

Chinese Character Transliteration:

合证(CERTIFICATE OF CONFORMITY)

产品名称：A&F自吸过滤式防颗粒物呼吸器( KN95型)
Product Name: A&F Self-Priming Filter Anti-Particulate Respirator Disposable

产品型号: AYM-KN95
Model Number: AYM-KN95

批准资质：KN95

产品规格：10pcs/pack
Product Specifications: 10pcs/pack

材料：无纺布 棉布
Material: non-woven fabric: htx cotton

生产地址: 广州爱米威有限公司
Manufacturer: Guangzhou Aymei Co., Ltd.

地址: 广州市海珠区新港西路12号
Address: Meidong Industrial Park Second Floor, No. 18-21, Tieshanhe Road, Sandong Avenue, Huan District, Guangzhou
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