NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: AAB (China) Co. Ltd.
Model Tested: KN95 Protective Breathing Mask
Date Tested: May 22, 2020

These findings pertain to the AAB (China) Co. Ltd., KN95 Protective Breathing 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 96.31% and 92.00%, respectively. Five respirators measured more than 95%. Five 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).
Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: May 22, 2020

Report Prepared: May 22, 2020

Manufacturer: AAB (China) Co. Ltd.

Item Tested: KN95 Protective Breathing 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>10.0</td>
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<td>3</td>
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<td>12.8</td>
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<td>4</td>
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<td>9.3</td>
<td>5.90</td>
<td>5.90</td>
<td>94.10</td>
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</table>

Minimum Filter Efficiency: 92.00  Maximum Filter Efficiency: 96.31

- 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 BREATHING MASK

Long-lasting Antibacterial
Anti-fog/Anti-droplets/Anti-dust
Effective Filter Material
Bendable Nose Clip

Non Medical

10 pcs

Anti- Smog  Droplet proof  Germ protective
**Method of use**

1. Keep your hand dry and unfold the mask.
2. Keep the inner side to your face and the nose clip along to the upside.
3. Hang on to your face with the earloops and adjust the both loops even, then press the nose clip.
4. Adjust the facemask to the most fit of your face in each side.

**Notes**

- Wash your hands before wearing the mask and avoid any touch to your face during wearing.
- Keep the mask flat and the inner surface to the upside after taking off, and fold it slightly and keep in the shade when necessary to avoid breaking the nose clip.
- Do not use when you have dyspnea or in sleep.
- Do not recommend to the children under 3 years old.
- Do not use when the oxygen density < 18%.
- Do not wash or flush.
- Please follow the guidance above to protect from infection.

**Product Information**

Product: Protective breathing mask
Type: Tight fit mask with elastic ear loop
Packing: 10pcs/pack  Colours: White
Materials: Non woven,Melt-blown non woven
Guarantee period: 2 years
Manufacturing date: See the marking on box
Storage at: Temp -20°C to 38°C, humidity:<80%
Usage: Protect against non-oily particles, e.g.: Dust, pollen, droplet.
LOT number: Same as manufacturing date
Quality standard: GB 2626-2006
Manufacturer: AAB(China) Co.,Ltd.
Address: AAB Industrial Park ,Honglai Town ,Nan’ an City ,
Fujian Province ,China
Tel.: +86-595-22980980
Website: www.aab.com
Made in China

**LOT No.: FM-28042020**
**PRO DATE: 28-04-2020**
**EXP DATE: 28-04-2022**
**Item No.: FM004**
### AAB Quality Certificate

<table>
<thead>
<tr>
<th>Product</th>
<th>KN95 Protective mask (Non Medical)</th>
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<td>Item NO.</td>
<td>FM004</td>
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<tr>
<td>Spec.</td>
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<td>Main material</td>
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<td>Executive standard</td>
<td>GB 2626-2006</td>
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<td>Period of validity</td>
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<tr>
<td>Inspector</td>
<td>AAB CHINA CO., LTD</td>
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<tr>
<td>Manufacturer</td>
<td>AAB Industrial Park, Hongliang Town, Nantian City, Fujian Province, China</td>
</tr>
<tr>
<td>Address</td>
<td>AAB Industrial Park, Hongliang Town, Nantian City, Fujian Province, China</td>
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</tbody>
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