

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Aiyinmei Co., Ltd.
Model Tested: KN95 Protective Mask (Non-Medical)
Date Tested: May 19, 2020

These findings pertain to the Guangzhou Aiyinmei Co., Ltd., KN95 Protective Mask (Non-Medical). The labeling for this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator).

Thirty respirators were submitted for evaluation. The respirators were sampled into groups of ten 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 98.27% and 89.90%, respectively. Twenty respirators measured more than 95%. 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 \(during known shortages\)](#).

Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: May 19, 2020

Report Prepared: May 19, 2020

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

Item Tested: KN95 Protective Mask (Non-Medical) (Sample Group 1 of 3)

Country of Certification: China (GB2626-2006)

Pictures have been added to the end of this report.

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
1	85	10.9	2.03	2.03	97.97
2	85	12.6	2.16	2.16	97.84
3	85	11.3	2.10	2.10	97.90
4	85	10.6	2.53	2.53	97.47
5	85	11.9	2.34	2.34	97.66
6	85	13.0	2.29	2.29	97.71
7	85	11.8	2.40	2.40	97.60
8	85	10.6	2.26	2.26	97.74
9	85	11.9	2.03	2.03	97.97
10	85	10.9	2.23	2.23	97.77
Minimum Filter Efficiency: 97.47			Maximum Filter Efficiency: 97.97		

- 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

Test: Modified TEB-APR-STP-0059

Date Tested: May 19, 2020

Report Prepared: May 19, 2020

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

Item Tested: KN95 Protective Mask (Non-Medical) (Sample Group 2 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
11	85	12.6	2.10	2.10	97.90
12	85	13.5	2.47	2.47	97.53
13	85	15.4	2.06	2.06	97.94
14	85	12.7	1.73	1.73	98.27
15	85	12.6	2.21	2.21	97.79
16	85	10.8	1.91	1.91	98.09
17	85	12.4	1.96	1.96	98.04
18	85	12.7	1.89	1.89	98.11
19	85	11.2	1.82	1.82	98.18
20	85	10.0	2.66	2.66	97.34
Minimum Filter Efficiency: 97.34			Maximum Filter Efficiency: 98.27		

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Test: Modified TEB-APR-STP-0059

Date Tested: May 19, 2020

Report Prepared: May 19, 2020

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

Item Tested: KN95 Protective Mask (Non-Medical) (Sample Group 3 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	12.5	9.12	9.12	90.88
22	85	11.7	9.01	9.01	90.99
23	85	14.2	9.86	9.86	90.14
24	85	15.0	9.15	9.15	90.85
25	85	11.4	9.48	9.48	90.52
26	85	12.5	10.1	10.1	89.90
27	85	11.8	9.10	9.10	90.90
28	85	11.1	8.85	8.85	91.15
29	85	11.2	9.69	9.69	90.31
30	85	11.5	9.97	9.97	90.03
Minimum Filter Efficiency: 89.90			Maximum Filter Efficiency: 91.15		

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KN95

Protective Masks

Product performance:

1. Using superfine fiber electrostatic melt-blown cloth composite ES hot air cotton. PP spunbond non-woven fabric, Form a four-layer filter layer to filter harmful substances more effectively, in line with the national standard KN95 level.
2. Design 3D three-dimensional shape according to human face engineering, while ensuring closeness. The breathing volume of the mask is increased, greatly improving the breathability and making breathing 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.

This product has wind and cold protection

Product name: KN95 Protective Mask

Executive standard: GB2626-2006

Product specifications: 10 pcs / pack

Product batch number: 20200421

Production date: 2020/04/21

Expiration date: 2 years

Recommended storage conditions: humidity <80% non-corrosive gas and well-ventilated clean room

Note that before use, the wearer must read and understand the instructions for use. Please save these instructions for reference.

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

Address: (Meidong Industrial Park) Second Floor, No. 18-21, Tieshanhe Road, Sandong Avenue, Huadu District, Guangzhou

Precautions:

1. To ensure the cleanness of the mask, avoid touching the inside of the mask with your hands.
2. Immediately after wearing a dust mask, wear a "tight check" to ensure that the mask is in the correct position.
3. Before wearing a mask, you should wash your hands. If you need to be exposed to a dusty environment, you should always wear a mask.
4. When you feel the breathing resistance increases significantly, or when the mask becomes dirty and damaged, the mask should be replaced as soon as possible.
5. This mask is not washable. Washing will damage the structure of the filter material, cause penetration, and damage the filtering performance of the electrostatic filter material.
6. Unused masks should be stored in a clean environment. Protect the masks from damage, dirt, dust and sunlight. Direct. High temperature or harmful chemical pollution. When storing the mask, avoid deformation of the mask.
7. Masks cannot be sterilized in a microwave oven (non-sterile)

合格证(CERTIFICATE OF QUALITY)

产品名称: KN95 防护口罩(非医用)

Product Name: KN95 Protective Mask (Non-medical)

品牌/产品型号: 无

Brand/Product model: NO

包装细节: 10只/包

Packing Details: 10 pcs/bag

生产批号: 20200421

Production batch No: 20200421

生产日期: 2020年04月21日

Production Date: 2020.04.21

主要成分: 无纺布54%, 熔喷布24.5%, 热风棉21.5%

Main Components: Non-woven fabric 54%, melt-blown fabric 24.5%, ES non-woven fabric 21.5%

有效期: 2年

Expiration Date: 2 Years

原产地: 中国制造

Country of Origin: China

执行标准: GB2626-2006

Executive Standard: GB2626-2006

电话: 020-66821792

Tel: 020-66821792

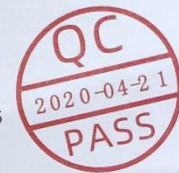
生产商: 广州爱音美有限公司

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

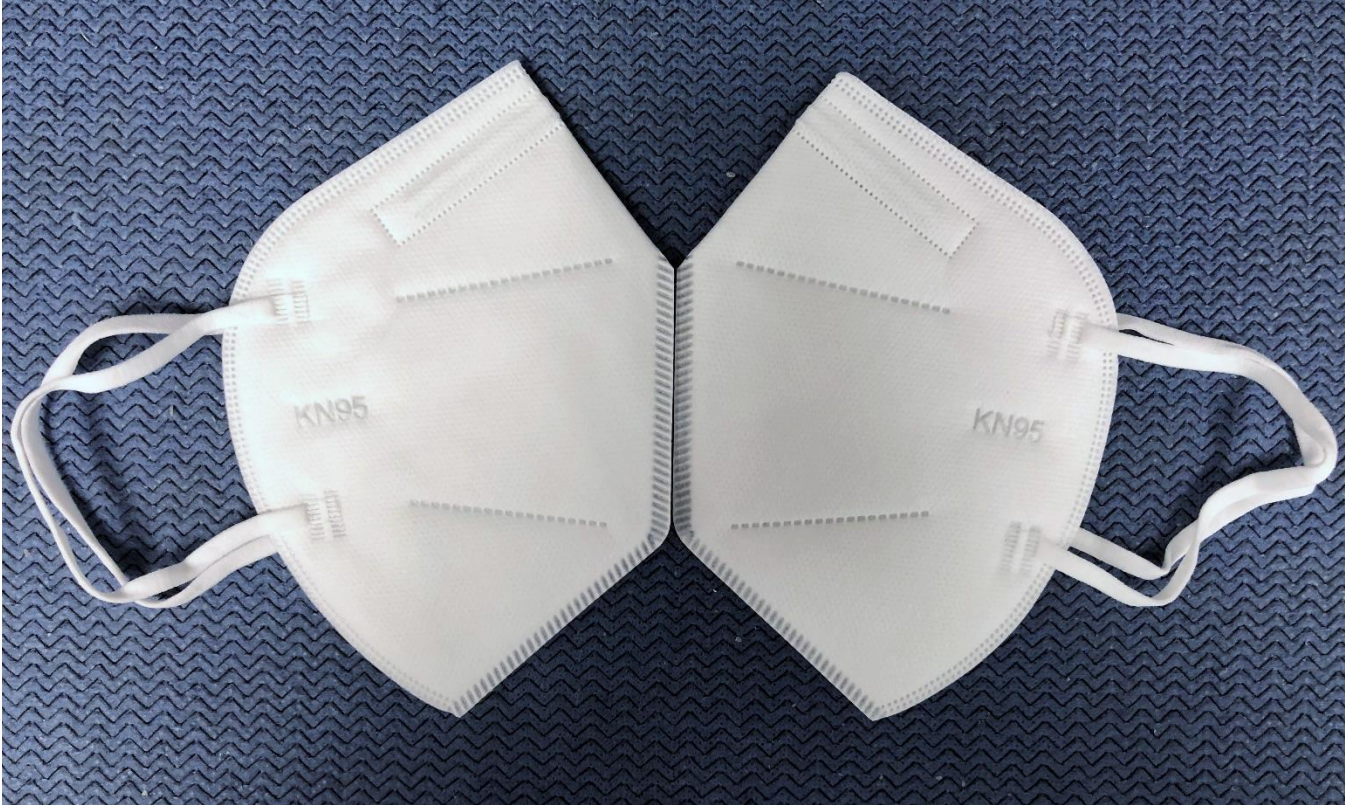
地址: 广州市花都区三东大道铁山河路18号-21号

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