NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Aiyinmei Co., Ltd.
Model Tested: A&F KN95
Date Tested: June 20, 2020

These findings pertain to the Guangzhou Aiyinmei Co., Ltd., model A&F 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).

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 98.88% and 93.77%, respectively. Twenty-eight respirators measured more than 95%. Two 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

NPPTL
National Personal Protective Technology Laboratory

Test: Modified TEB-APR-STP-0059

Date Tested: June 20, 2020

Report Prepared: June 20, 2020

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

Item Tested: A&F KN95 (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_2O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
1	85	10.5	3.71	3.71	96.29
2	85	11.9	3.38	3.38	96.62
3	85	9.0	6.23	6.23	93.77
4	85	13.7	2.29	2.29	97.71
5	85	13.4	1.36	1.36	98.64
6	85	12.0	4.26	4.26	95.74
7	85	16.8	1.43	1.43	98.57
8	85	12.8	4.75	4.75	95.25
9	85	12.1	4.51	4.51	95.49
10	85	13.8	3.08	3.08	96.92
Minimum Filter Efficiency: 93.77			**Maximum Filter Efficiency: 98.64**		

- 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: June 20, 2020

Report Prepared: June 20, 2020

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

Item Tested: A&F KN95 (Sample Group 2 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH_2O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
11	85	14.1	1.76	1.76	98.24
12	85	17.0	1.14	1.14	98.86
13	85	15.0	3.00	3.00	97.00
14	85	15.8	3.56	3.56	96.44
15	85	14.0	4.13	4.13	95.87
16	85	13.5	2.40	2.40	97.60
17	85	12.6	2.97	2.97	97.03
18	85	13.6	4.13	4.13	95.87
19	85	10.3	3.72	3.72	96.28
20	85	10.1	4.26	4.26	95.74
Minimum Filter Efficiency: 95.74			**Maximum Filter Efficiency: 98.86**		

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NPPTL COVID-19 Response: International Respirator Assessment

Test: Modified TEB-APR-STP-0059

Date Tested: June 20, 2020

Report Prepared: June 20, 2020

Manufacturer: Guangzhou Aiyinmei Co., Ltd.

Item Tested: A&F KN95 (Sample Group 3 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH_2O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	12.1	3.96	3.96	96.04
22	85	10.7	1.45	1.45	98.55
23	85	13.4	1.12	1.12	98.88
24	85	10.9	5.60	5.60	94.40
25	85	17.8	1.19	1.19	98.81
26	85	15.1	1.50	1.50	98.50
27	85	12.7	1.13	1.13	98.87
28	85	10.8	4.24	4.24	95.76
29	85	10.4	1.81	1.81	98.19
30	85	17.4	3.63	3.63	96.37
Minimum Filter Efficiency: 94.40			**Maximum Filter Efficiency: 98.88**		

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- 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.
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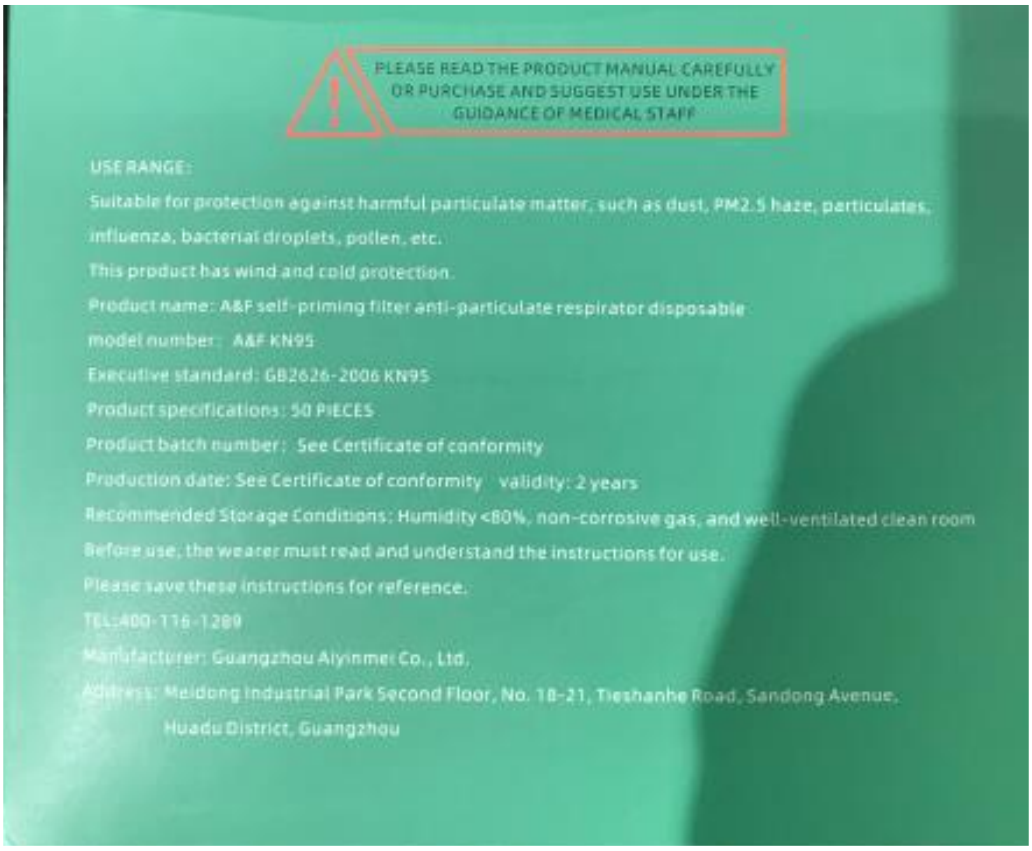
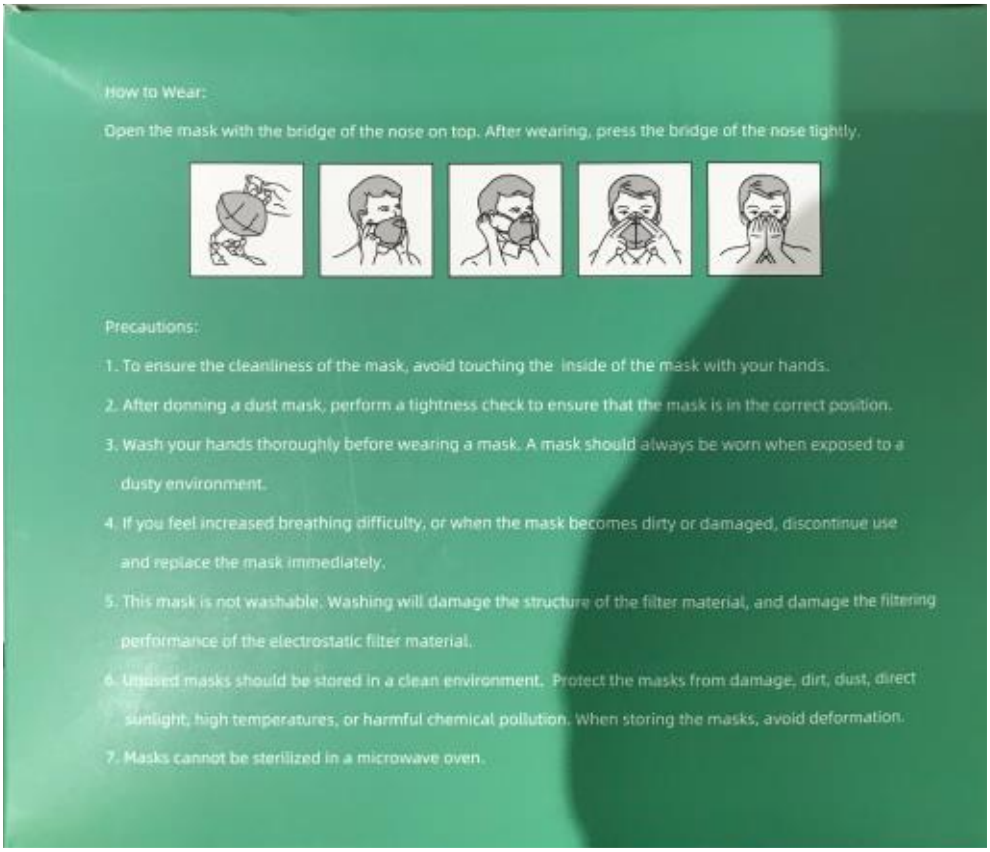
A&F
50 PCS
KN95
A&F SELF-PRIMING FILTER ANTI-PARTICULATE RESPIRATOR DISPOSABLE
KN95
A&F
KN95
非医用 NON MEDICAL EQUIPMENT


PLEASE READ THE PRODUCT MANUAL CAREFULLY OR PURCHASE AND SUGGEST USE UNDER THE GUIDANCE OF MEDICAL STAFF
USE RANGE:
Suitable for protection against harmful particulate matter, such as dust, PM2.5 haze, particulates, influenza, bacterial droplets, pollen, etc.
This product has wind and cold protection.
Product name: A&F self-priming filter anti-particulate respirator disposable
model number: A&F KN95
Executive standard: GB2626-2006 KN95
Product specifications: 50 PIECES
Product batch number: See Certificate of conformity
Production date: See Certificate of conformity validity: 2 years
Recommended Storage Conditions: Humidity <80%, non-corrosive gas, and well-ventilated clean room
Before use, the wearer must read and understand the instructions for use.
Please save these instructions for reference.
TEL:400-116-1289
Manufacturer: Guangzhou Aiyinmei Co., Ltd.
Address: Meidong Industrial Park Second Floor, No. 18-21, Tieshanhe Road, Sandong Avenue, Huadu District, Guangzhou

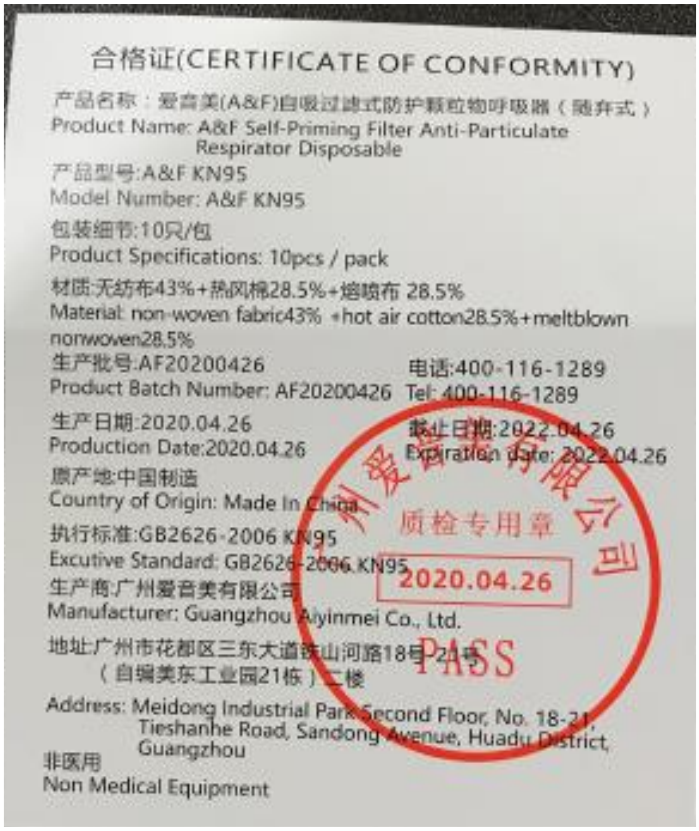


How to Wear:

Open the mask with the bridge of the nose on top. After wearing, press the bridge of the nose tightly.

Precautions:

1. To ensure the cleanliness of the mask, avoid touching the inside of the mask with your hands.
2. After donning a dust mask, perform a tightness check to ensure that the mask is in the correct position.
3. Wash your hands thoroughly before wearing a mask. A mask should always be worn when exposed to a dusty environment.
4. If you feel increased breathing difficulty, or when the mask becomes dirty or damaged, discontinue use and replace the mask immediately.
5. This mask is not washable. Washing will damage the structure of the filter material, 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, direct sunlight, high temperatures, or harmful chemical pollution. When storing the masks, avoid deformation.
7. Masks cannot be sterilized in a microwave oven.



合格证(CERTIFICATE OF CONFORMITY)

产品名称：爱音美(A&F)自吸过滤式防护颗粒物呼吸器（随弃式）
Product Name: A&F Self-Priming Filter Anti-Particulate Respirator Disposable
产品型号:A&F KN95
Model Number: A&F KN95
包装细节:10只/包
Product Specifications: 10pcs / pack
材质:无纺布43%+热风棉28.5%+熔喷布 28.5%
Material: non-woven fabric43% +hot air cotton28.5%+meltblown nonwoven28.5%
生产批号:AF20200426
Product Batch Number: AF20200426
电话:400-116-1289
Tel: 400-116-1289
生产日期:2020.04.26
Production Date:2020.04.26
截止日期:2022.04.26
Expiration date: 2022.04.26
原产地:中国制造
Country of Origin: Made in China
执行标准:GB2626-2006 KN95
Excutive Standard: GB2626-2006 KN95
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（自编美东工业园21栋）二楼
Address: Meidong Industrial Park Second Floor, No. 18-21, Tieshanhe Road, Sandong Avenue, Huadu District, Guangzhou
非医用
Non Medical Equipment

质检专用章
2020.04.26
PASS

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 nonwoven, composite ES hot air cotton, and PP spunbond nonwoven 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 wind and cold protection.

Product Name: A&F Self-Priming Filter Anti-Particulate Respirator Disposable

Model Number: A&F KN95

Executive Standard: GB2626-2006 KN95

Product Batch Number: See Certificate of conformity

Production Date: See Certificate of conformity Validity: 3 years

Recommended Storage Conditions: Humidity <80%, non-corrosive gas, and well-ventilated clean room

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:

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Hou Medical Equipment

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KN95

NPPTL COVID-19 Response: International Respirator Assessment