

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Nan Qi Xing Nonwoven Co., Ltd.

Model Tested: KN1

Date Tested: January 6, 2020

These findings pertain to the Guangzhou Nan Qi Xing Nonwoven Co., Ltd., model KN1. 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 98.47% and 96.55%, respectively. All thirty respirators measured more 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 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 \(during known shortages\)](#).

Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: January 6, 2020

Report Prepared: January 6, 2020

Manufacturer: Guangzhou Nan Qi Xing Nonwoven Co., Ltd.

Item Tested: KN1

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	15.8	2.10	2.10	97.90
2	85	17.0	1.53	1.53	98.47
3	85	15.8	1.56	1.56	98.44
4	85	16.6	1.86	1.86	98.14
5	85	17.2	1.69	1.69	98.31
6	85	9.6	3.17	3.17	96.83
7	85	12.8	3.00	3.00	97.00
8	85	16.4	1.91	1.91	98.09
9	85	14.7	1.99	1.99	98.01
10	85	16.9	2.00	2.00	98.00
Minimum Filter Efficiency: 96.83%			Maximum Filter Efficiency: 98.47%		

- 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.

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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
11	85	13.1	2.76	2.76	97.24
12	85	10.3	3.14	3.14	96.86
13	85	16.9	1.96	1.96	98.04
14	85	11.7	3.45	3.45	96.55
15	85	15.5	1.80	1.80	98.20
16	85	16.8	2.26	2.26	97.74
17	85	17.5	1.99	1.99	98.01
18	85	14.7	2.25	2.25	97.75
19	85	16.7	1.96	1.96	98.04
20	85	16.9	2.22	2.22	97.78
Minimum Filter Efficiency: 96.55%			Maximum Filter Efficiency: 98.20%		

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21	85	14.8	1.99	1.99	98.01
22	85	17.7	2.20	2.20	97.80
23	85	16.0	2.41	2.41	97.59
24	85	14.8	2.13	2.13	97.87
25	85	17.0	2.18	2.18	97.82
26	85	16.2	2.19	2.19	97.81
27	85	15.8	2.06	2.06	97.94
28	85	15.2	2.48	2.48	97.52
29	85	17.1	1.79	1.79	98.21
30	85	16.3	1.92	1.92	98.08
Minimum Filter Efficiency: 97.52%			Maximum Filter Efficiency: 98.21%		

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Batch #:
Production Date: See Inner Carton (Shelf life: 2 years)

HOW TO WEAR



- 1) Unfold the mask with the nose-piece facing up, and pull the ear-loop bands outward on either end.
- 2) Position the mask under your chin and completely cover your nose and mouth, while maintaining chin coverage. Pull the ear straps behind your ears and adjust them for comfort.
- 3) Press down to mold the metal nose-piece, ensuring a tight-fitting seal.
- 4) Cover the mask with both hands and exhale. If air leaks around the nose-piece, pinch the nose-piece to the shape of your nose. If air leaks around the mask edges, readjust the ear straps so that the mask edges fit closely against your face.



Face mask is not for medical use

One Size Fits All

Manufactured in China

Primary Materials: non-woven & meltblown polypropylene, hot air cotton

VIDA & Co. / www.shopvida.com / hi@shopvida.com / San Francisco, CA
Manufacturer: Guangzhou Nan Qi Xing Nonwoven CO.,Ltd.
Wenbian Village, Shiji Town, Panyu District, Guangzhou City, Guangdong Province, China.



合格证 Certificate of Conformity

产品名:KN95口罩 (非医用)

Product Name: KN95 Mask (non-medical)

型号: KN-1

Model Number: KN-1

数量: 5只/包

Quantity: 5 pcs/bag

主要成分: 42.5%无纺布, 29%熔喷布, 28.5%热风棉

Materials: 42.5% PP nonwoven, 29% Meltblown nonwoven,
28.5% Thermal bonded nonwoven

执行标准: GB2626-2006

Standard: GB2626-2006

生产批号: 20201114

Batch Number: 20201114

生产日期: 20201114

Production Date: 20201114

有效期: 2年

Shelf Life: 2 years

质检员: 05

Inspector: 05

生产商: 广州市南柒星无纺布有限公司 **合格**

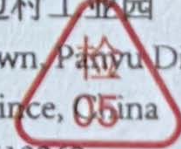
Manufacturer: Guangzhou Nan Qi Xing Nonwoven Co.,Ltd.

地址: 广州市番禺区石基镇文边村工业园

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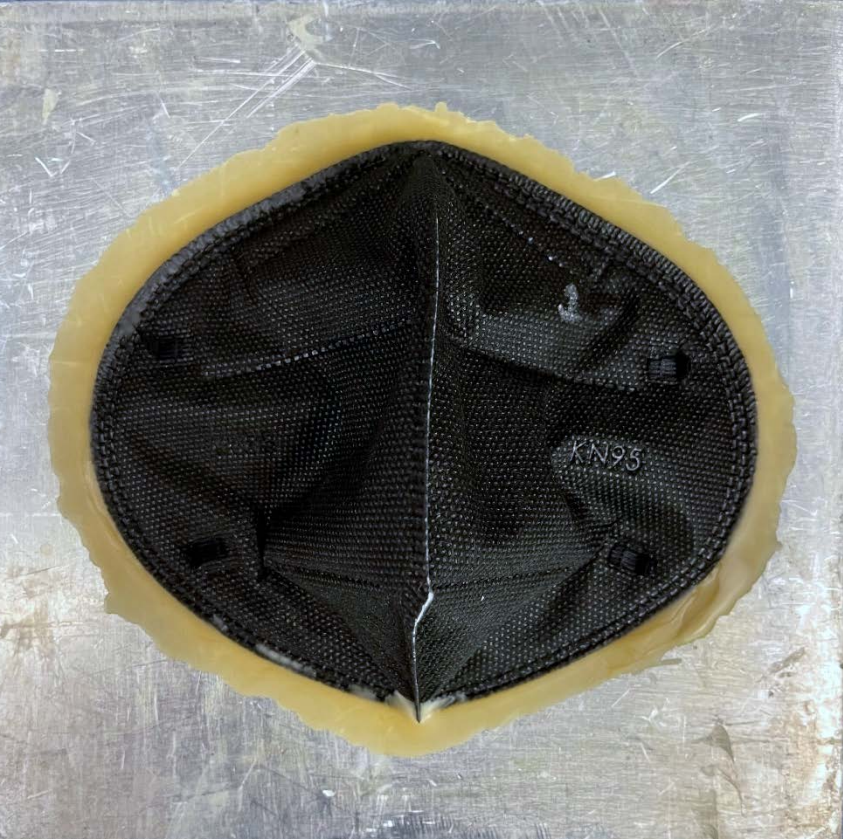
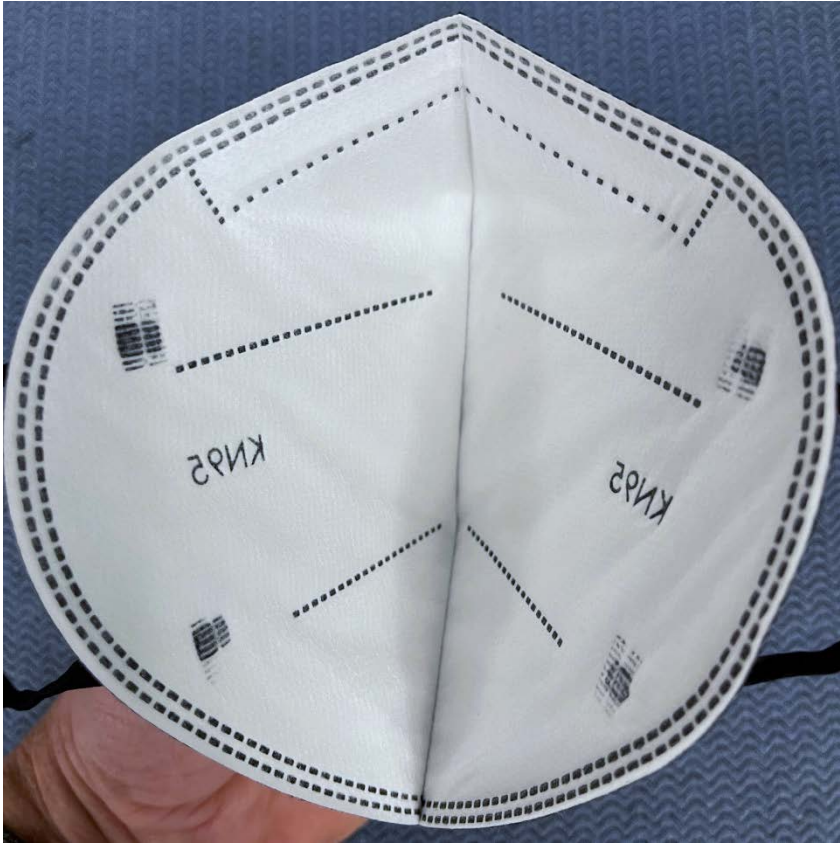
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