

NPPTL COVID-19 Response: International Respirator Assessment

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

Model Tested: KN-1 5 Layers

Date Tested: June 16, 2020

These findings pertain to the Guangzhou Nan Qi Xing Nonwoven Co., Ltd., model KN-1 5 Layers. 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 97.87% and 97.19%, respectively. All ten 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 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: June 16, 2020

Report Prepared: June 17, 2020

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

Item Tested: KN-1 5 Layers

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	16.9	2.81	2.81	97.19
2	85	17.0	2.46	2.46	97.54
3	85	16.0	2.13	2.13	97.87
4	85	15.7	2.14	2.14	97.86
5	85	13.3	2.29	2.29	97.71
6	85	17.4	2.56	2.56	97.44
7	85	16.9	2.51	2.51	97.49
8	85	17.0	2.68	2.68	97.32
9	85	14.5	2.30	2.30	97.70
Minimum Filter Efficiency: 97.19			Maximum Filter Efficiency: 97.87		

- 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.



Mask

GB2626-2006

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PCS

High filtration efficiency and low breathing resistance

-  Adjustable nose clip
-  Flat-fold style
-  High-filtration



Individual Package




KN95

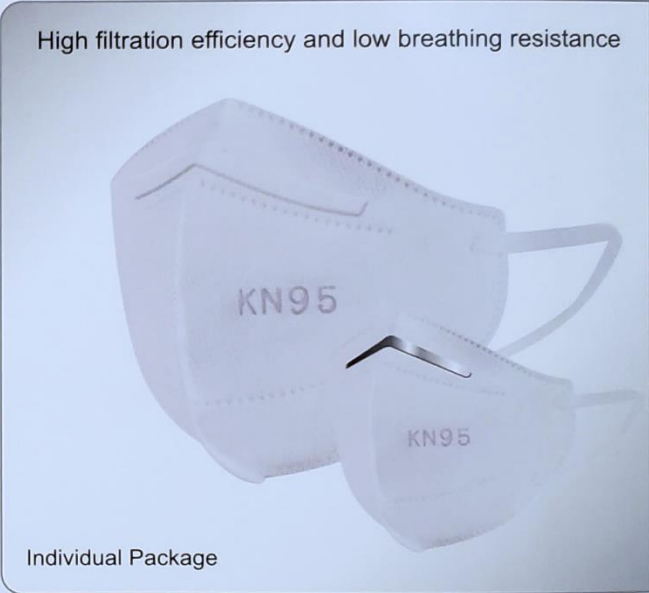


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PCS

KN95

GB2626-2006

-  Adjustable nose clip
-  Flat folding
-  High-filtration



Please refer to the instructions on the box.
Batch Number: See inner package.

Manufacturer: Guangzhou Nan Qi Xing Non-woven Co.,Ltd.
Address: Wenbian Village, Shiji Town, Panyu District, Guangzhou City, Guangdong Province, China
Tel: 0086 020-3551 3112 / 3551 3262
Shelf Life: 2 years
MADE IN CHINA.



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Instructions

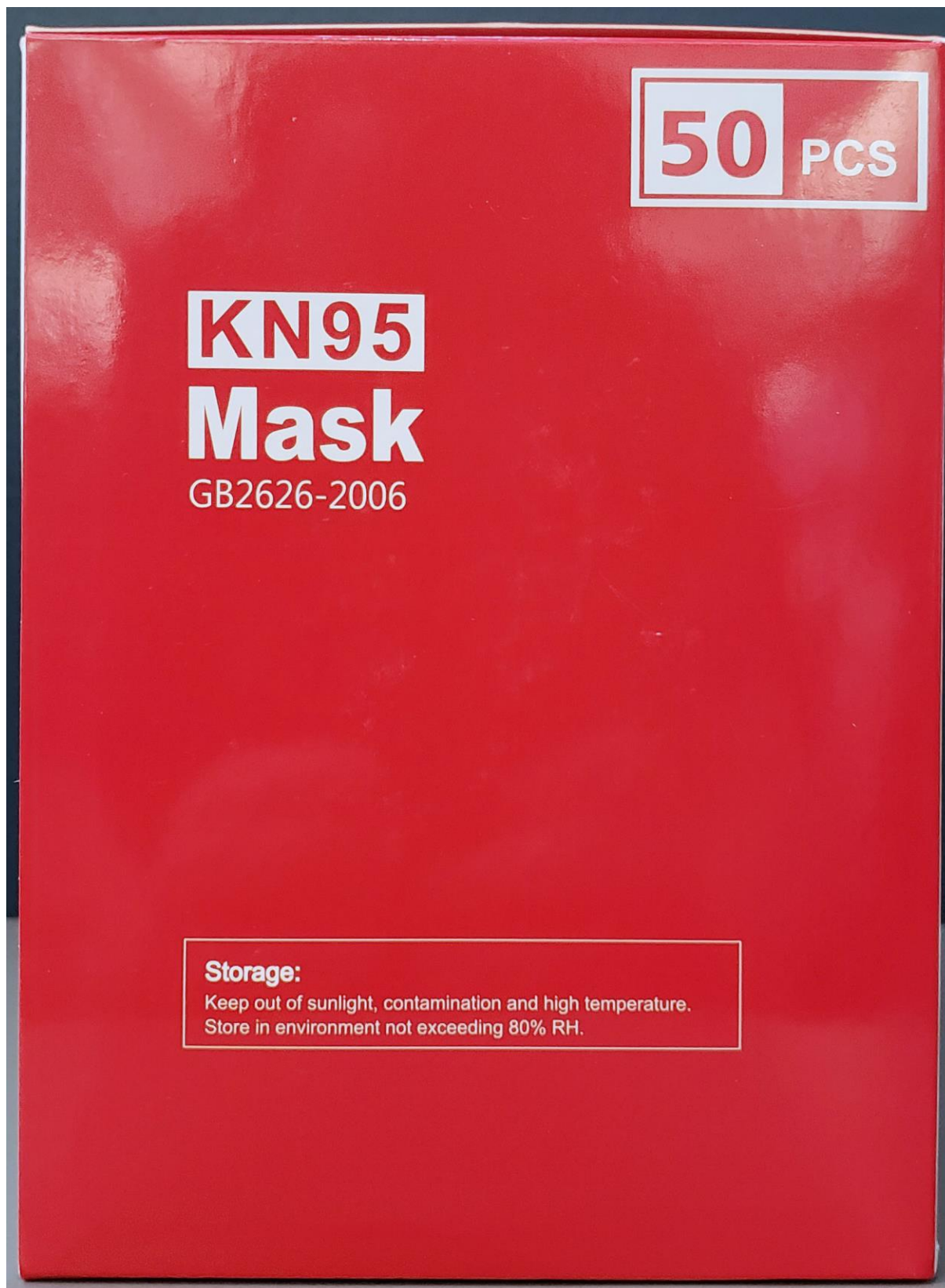


1. Open the mask to make the nosepiece at the top, and pull the ear straps with both hands.
2. Position the mask under your chin and completely cover your nose and mouth. Pull the ear straps behind your ears and adjust them until it feels comfortable.
3. Use two hands to mold the nosepiece to the shape of your nose by pushing inward while moving your fingertips down both sides of the nosepiece.
4. Cover the mask with both hands and exhale. If air leaks out around nosepiece, pinch the nosepiece to the shape of your nose; if air leaks around the mask edges, readjust the position of ear straps to make certain mask edges fit closely against the face.

WARNING:

Mold the nosepiece with one hand may result less effective mask performance. If mask becomes damaged or breathing becomes difficult, leave the contaminated area immediately and replace the mask.





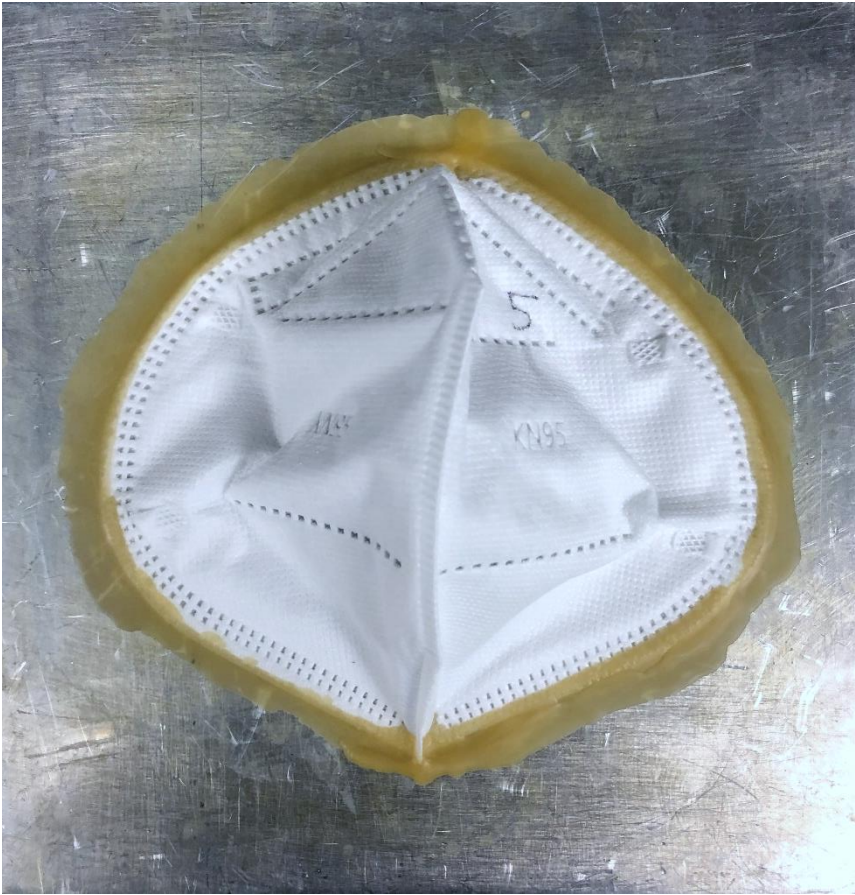
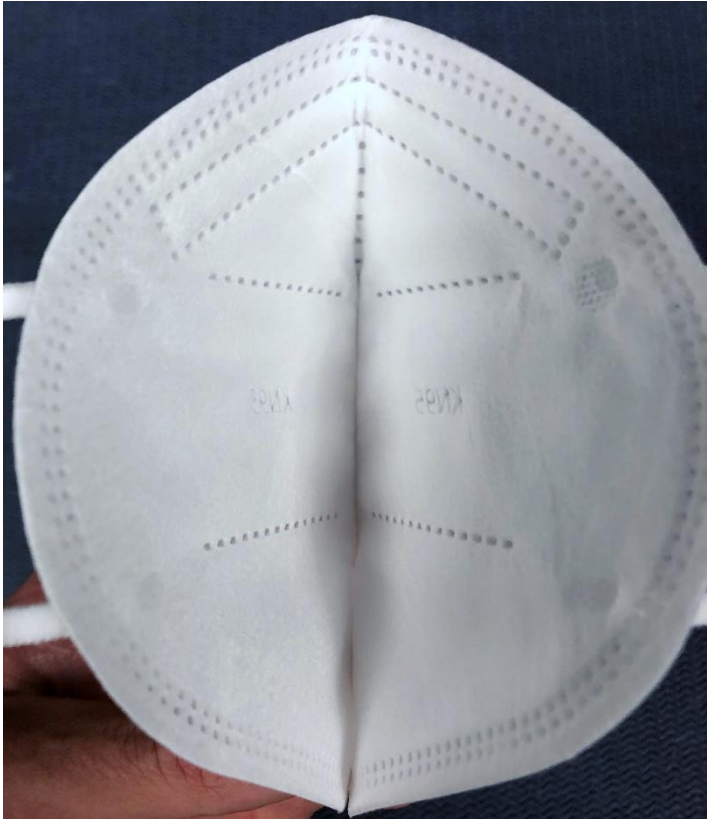
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