Manufacturer: Quanzhou Xinan Medical Technology Co., Ltd. Model Tested: KN95 Particulate Respiratory Mask Date Tested: November 5, 2020

These findings pertain to the Quanzhou Xinan Medical Technology Co., Ltd., model KN95 Particulate Respiratory 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) and EN149:2001+A1:2009 (the European standard for Respiratory Protective Devices – Filtering Half Masks to Protect Against Particles – Requirements, Testing, Marking).

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 <u>here</u>.

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 26.70% and 22.80%, respectively. All 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 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 <u>Crisis Capacity Strategies (during known</u> <u>shortages)</u>.

## **Evaluation of International Respirators**

Test: Modified TEB-APR-STP-0059

Date Tested: November 5, 2020

Report Prepared: November 5, 2020

Manufacturer: Quanzhou Xinan Medical Technology Co., Ltd.

Item Tested: KN95 Particulate Respiratory Mask

Country of Certification: China (GB2626-2006), European (EN149:2001+A1:2009)

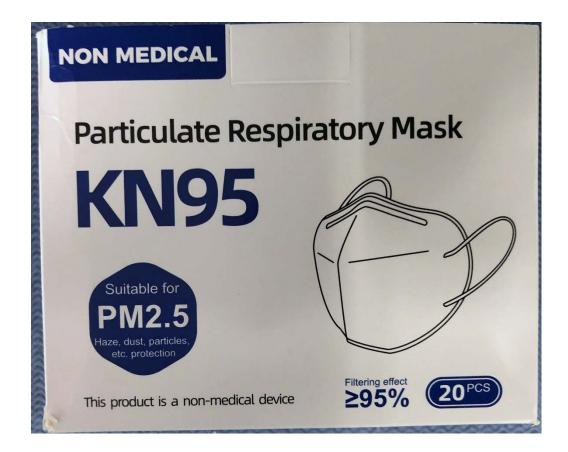
Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	3.6	75.2	76.0	24.00
2	85	3.8	74.5	75.0	25.00
3	85	3.0	77.2	77.2	22.80
4	85	3.9	73.1	73.3	26.70
5	85	4.1	74.9	75.7	24.30
6	85	3.1	76.8	76.8	23.20
7	85	3.6	76.0	76.2	23.80
8	85	3.6	75.4	75.7	24.30
9	85	2.8	77.1	77.1	22.90
10	85	3.3	75.6	75.6	24.40
r	Vinimum Filter Effi	ciency: 22.80%	Maximum Filter Efficiency: 26.70%		

- 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 National Personal Protective Technology Laboratory

Pictures have been added to the end of this report.





Product Name: KN95 Particulate Respiratory Mask Executive Standard: GB2626-2006 / EN149:2001+A1:2009 Main Component: Non-woven fabric, Melt-blown Filter Material Production Date: As indicated on the product certificate. Expiration date: 3 Years Storage Conditon: 20-40 Degrees, Humidiy < 80%

### Notice

- 1. Do not use in atmospheres containing less than 19.5% oxygen.
- 2. Do not use when the respirator has damage or stains.
- 3. The respirator is only for non-oil particulate matter protection.
- 4. The respirator is designed for the use of adults, not recommended for children and pregnancy.

#### Before Use

Stop using when the product have damage, stains Before enter working place, close he mask on the face, please rewear when leakage. (when feel uncomfortable stop using this product)

#### Methods of Applicaiton

- 1.Wash hands, The side of the earband is facing outwards, and the bridge of the nose is facing upwards.
- 2.Close to the face and stretch the mask completely over the mouth, nose and chin. 3.Adjust the bridge of the nose and press it, so that the mask is close to
  - the bridge of the nose and cheek.
- 4. Replace it immediately if there is damage, odor or moisture.



## 合格证 CERTIFICATE

产品名称: KN95口罩(非医用) Product name Kn95 mask(non-medical) 产品规格:100\*150MM Product specifications 主要材料:33.3%熔喷布+66.7%无纺布 Main materials 33.3%melt blog n + 66.7%non-wove 生产批号: 2020116 Batch number 执行标准:GB2626-20 Executive standard 生产日期: Date of manufacture 3年 保质期: Quality guarantee period 3 years 生产商:泉州市忻安医疗科技有限公司 Manufacturar Quanzhou xinan Medical technology Co., Ltd 生产地址:南安市诗山镇凤坡村18组189-1号 Production address No. 189-1 group 18, Fengpo village Shishan town, Nan'an City 本产品为非医疗器械,仅供应急使用。 This product is a non-medical device. For emergency use only. MADE IN CHINA





