

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Zhongshan Qiangou Protective Equipment Technology Co., Ltd

Model Tested: KN95 Protective Mask

Date Tested: July 30, 2020

These findings pertain to the Zhongshan Qiangou Protective Equipment Technology Co., Ltd, Model KN95 Protective 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). The packaging and labeling for this product indicates that it also meets 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 [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 92.77% and 82.10%, 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 [Crisis Capacity Strategies \(during known shortages\)](#).

Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: July 30, 2020

Report Prepared: July 31, 2020

Manufacturer: Zhongshan Qiangou Protective Equipment Technology Co., Ltd.

Item Tested: KN95 Protective Mask

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

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	6.1	13.8	13.8	86.20
2	85	8.7	16.1	16.1	83.90
3	85	7.5	7.23	7.23	92.77
4	85	10.2	9.66	9.66	90.34
5	85	8.5	9.16	9.16	90.84
6	85	6.7	12.4	12.4	87.60
7	85	6.6	17.9	17.9	82.10
8	85	6.6	14.9	14.9	85.10
9	85	5.5	11.0	11.0	89.00
10	85	8.6	12.2	12.2	87.80
Minimum Filter Efficiency: 82.10			Maximum Filter Efficiency: 92.77		

- 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.

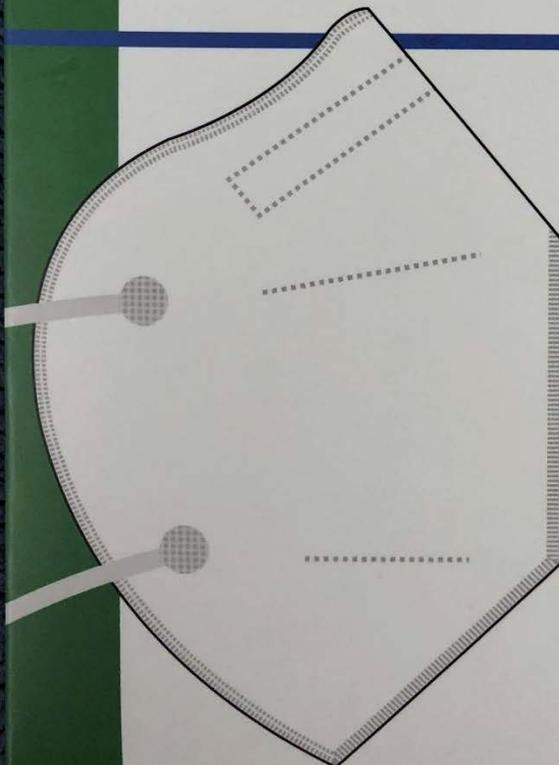
MTT-2020-330.1

Filtering effect $\geq 95\%$



★★★★★
KN95
Protective Mask

MASK



Advanced environmental protection non-woven fabric, multi layer fabric can effectively resist fine particles (PM2.5) and bacteria in air pollution

Execution standard:

CE: EN149:2001+A1:2009



FOUR LAYERS OF FABRIC

20PIECES/PACK

USAGE

Mask on mouth and nose, prevent inhalation of dust

WEARING METHOD

1. Face the mask without nose clip, place the nose clip over the mask, hold the mask on your face, put the mask on your chin
2. Just pull the earband to the outside of both ears and hang it
3. Put your fingers in the middle of the metal nose clip, press in while moving the fingertips to both sides along the nose clip until the nose clip is fully pressed into the shape of the bridge of the nose
4. Put your hands on your face to check for face tightness



PRODUCT INFORMATION

Product Name: Protective Respirator (mask) for civil use

Model: KN95 Protective Mask

Standard: EN 149:2001+A1:2009

Classification: FFP2



Producer: Zhongshan Qianguo Protective Equipment Technology Co., Ltd
Address: Floor 1 and 2, No. 10, Hengri Lane, Bogong Community,
Dongfeng Town, Zhongshan City, Guangdong, China

MADE IN CHINA

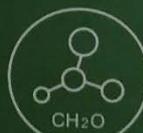
Manufacturing date: March of 2020 Expiry date : March of 2023



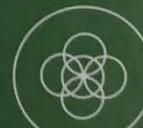
INFLUENZA VIRUS



AUTOMOBILE EXHAUST



DECORATION ODOR



POLLEN ALLERGY



合格证

产品名称：KN95防护口罩

生产日期：2020年4月

生产批号：20200402

有效期：3年

执行标准：GB2626-2006

检验员：检 02

生产企业：中山市千果防护用品
有限公司

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