

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Shenzhen Zhongyue Health Technology Co., Ltd.

Model Tested: KN95 Protective Mask

Date Tested: May 15, 2020

These findings pertain to the Shenzhen Zhongyue Health Technology Co., Ltd., KN95 Protective Mask. The packaging for this product indicates that it 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 96.07% and 95.03%, 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: May 15, 2020

Report Prepared: May 16, 2020

Manufacturer: Shenzhen Zhongyue Health Technology Co., Ltd.

Item Tested: KN95 Protective Mask

Country of Certification: China (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	12.5	4.18	4.18	95.82
2	85	14.4	4.97	4.97	95.03
3	85	12.7	3.99	3.99	96.01
4	85	12.3	4.67	4.67	95.33
5	85	13.5	4.59	4.59	95.41
6	85	13.5	4.58	4.58	95.42
7	85	13.2	4.69	4.69	95.31
8	85	14.2	3.93	3.93	96.07
9	85	12.9	4.35	4.35	95.65
10	85	13.6	4.41	4.41	95.59
Minimum Filter Efficiency: 95.03			Maximum Filter Efficiency: 96.07		

- 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.

Unite as one to fight the epidemic

KN95 Protective Mask

Country needs , we will make it

Executive Standard: EN 149:2001+A1:2009 KN95

CE FDA

- ✓ Efficient filtration
- ✓ Strong permeability
- ✓ Strong cohesion



- Skin care fabric
- Nose clip molding piece
- Three dimensional arc design

Bacterial barrier rate

≥95%

50pcs

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KN95 Protective Mask

【Application scope】

This product is suitable for self absorption filter protection of all kinds of particles

【application restrictions】

1. This product is not suitable for respiratory protective equipment for protecting harmful gas and steam;
2. It is not suitable for oxygen deficient environment, underwater operation, escape and respiratory equipment for fire fighting.

【pre use inspection method】

Please check the product and package before trial use. Do not use when the product or package is damaged.

【precautions】

1. Do not modify or abuse this product.
2. Please keep away from the fire
3. Please note: too strong pulling of the ear hook will cause the ear hook to break
4. When facial beard, hair or other conditions can affect the fit between face and mask, Do not use this product.

【storage method】

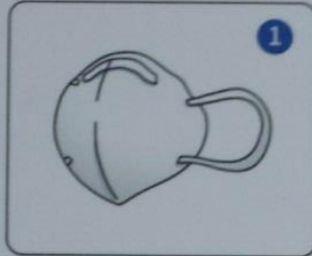
1. Pay attention to waterproof, high temperature, humidity and corrosive gases.
2. Keep away from direct sunlight, and stay in clean, dry and well ventilated environment

MADE IN CHINA

storage period: 2 years

Production date and batch: check at the certificate

Usage Method



1. Face the face of mask without pinching nose, and pull the ear belt with both hands, Place the nose clip over the mask.
2. Cover your chin with the mask.
3. Pulling the ear strap to the ear, adjust the ear strap to feel as comfortable as possible.
4. Place the fingers of both hands in the middle of the nose clip, while pressing inward, move the fingers along the nose tip to both sides until the nose clip is completely pressed into the shape of the nose bridge.

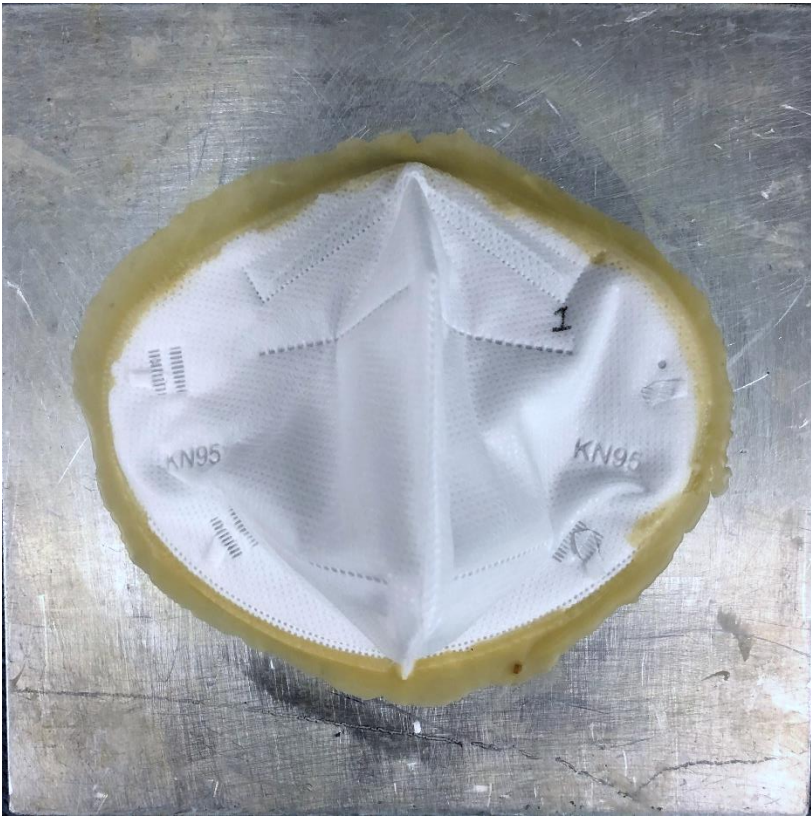


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