

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Anhui Changli Environmental Protection Technology Co., Ltd

Model Tested: KN95 Protective Mask

Date Tested: April 21, 2020

These findings pertain to the Anhui Changli Environmental Protection Technology Co., Ltd, KN95 Protective Mask. The labeling 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 95.74% and 94.73%, respectively. Six of ten respirators measured more than 95%. Four of the 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 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: April 21, 2020

Report Prepared: April 21, 2020

Manufacturer: Anhui Changli Environmental Protection 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	9.4	4.92	4.92	95.08
2	85	9.3	5.27	5.27	94.73
3	85	9.0	5.08	5.08	94.92
4	85	9.4	4.61	4.61	95.39
5	85	9.4	5.27	5.27	94.73
6	85	9.5	4.51	4.51	95.49
7	85	10.9	4.26	4.26	95.74
8	85	10.5	4.43	4.43	95.57
9	85	14.4	5.03	5.03	94.97
10	85	10.9	4.74	4.74	95.26
Minimum Filter Efficiency: 94.73			Maximum Filter Efficiency: 95.74		

- 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.



使用方法

METHOD OF USE

使い方

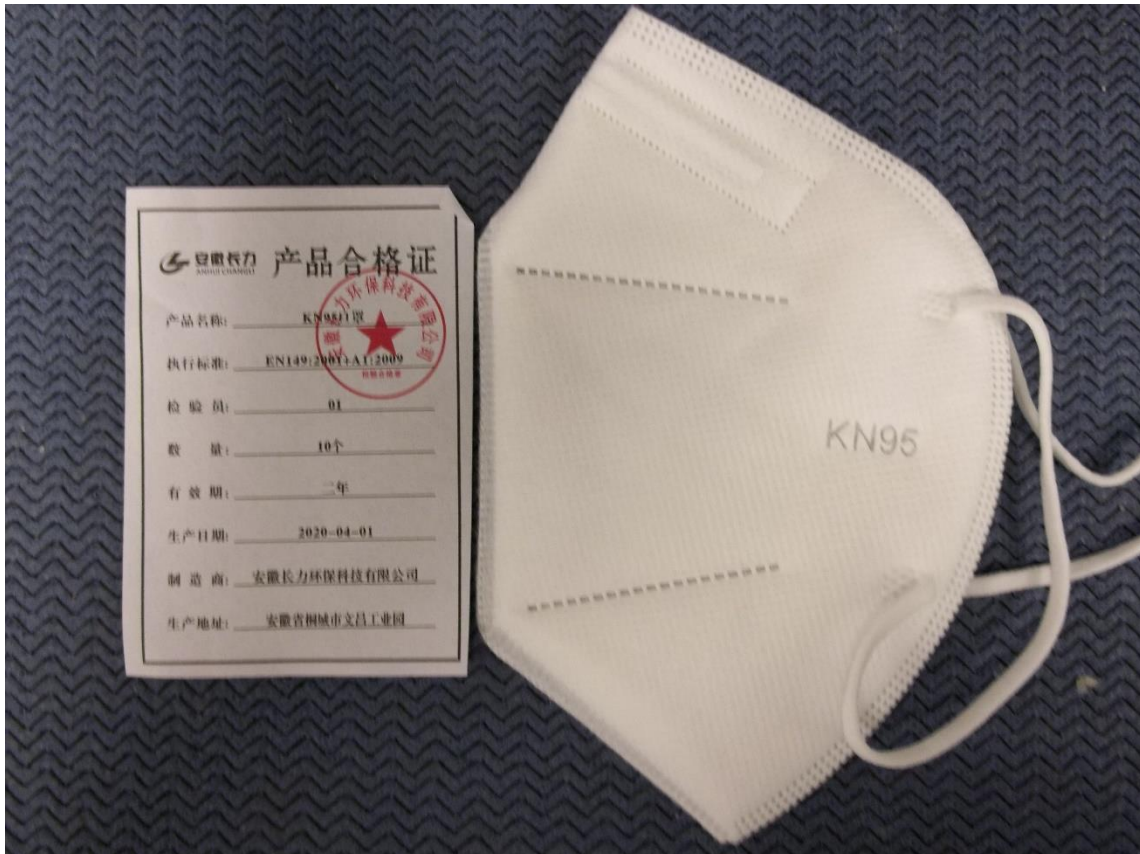
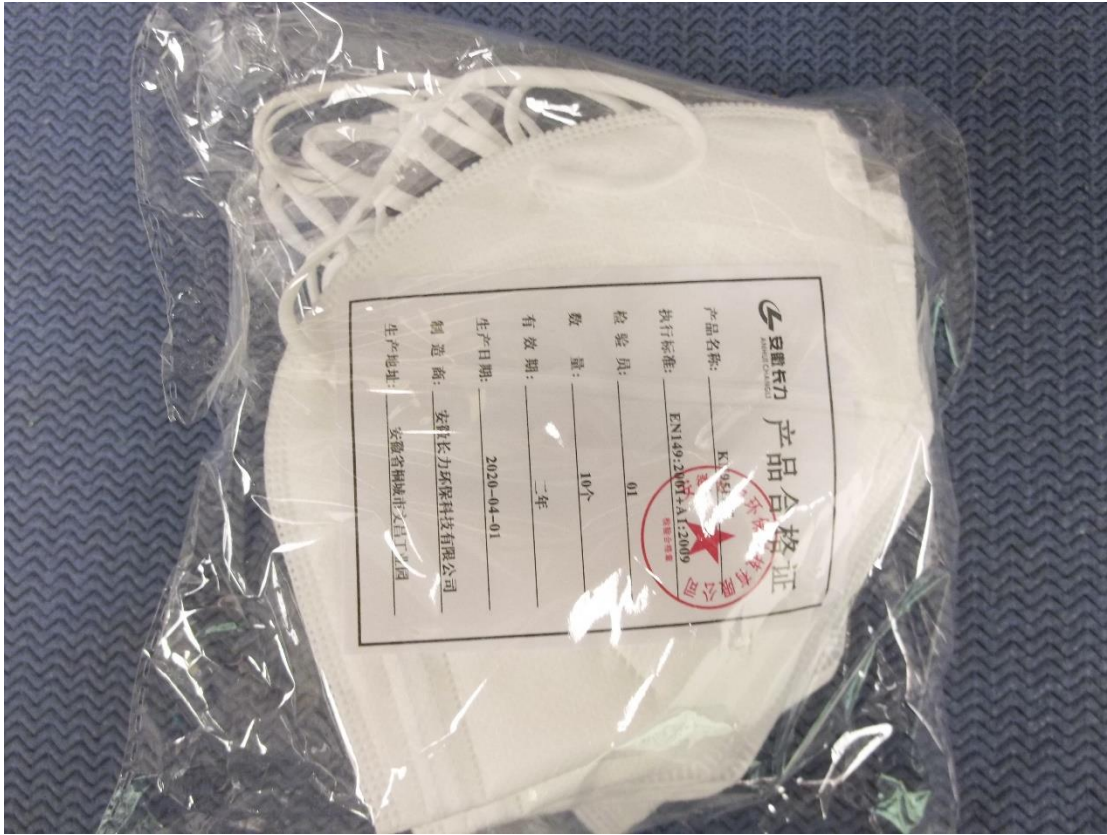
사용 방법



1. 将口罩平整打开
 2. 面向口罩无鼻夹的一面，使鼻夹于口罩上方
 3. 将耳带拉至耳后
 4. 鼻夹中部，从中向两侧按照鼻梁条形状向内按压，直至将其完全按压成鼻梁形状为止，
仅用单手捏住口罩鼻夹可能影响口罩的密合性
 5. 在进入工作区域之前，必须检查口罩与脸部的密合性
1. Flatten and open the mask
 2. Face the face mask without nose clip, so that nose clip above the mask
 3. Pull the ear band behind your ear
 4. In the middle of the nose clip, press in according to the shape of the bridge of the nose strip from the middle to the two sides until it is fully pressed into the shape of the bridge of the nose. Holding the nose clip with only one hand may affect the tightness of the mask
 5. Before entering the work area, the mask must be checked for tightness to the face
1. 마스크를 평평하게 펴다.
 2. 마스크를 마주한 코끼이면이 없고, 코를 마스크 윗부분에 끼게 함.
 3. 귀대를 귀뒤로 당기다.
 4. 코핀 중부, 중간에서 양쪽의 코등보모양대로 안쪽방향으로 눌러주고 완전히 콧대모양으로 눌러줄 때까지 손으로 마스크코핀을 꼭 쥐길 경우 마스크의 밀착성에 영향줄수 있다.
 5. 근무 지역에 들어가기 전에 반드시 마스크와 얼굴과의 밀착성을 체크해야 한다

MADE IN CHINA

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