NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Chengde Technology Co., Ltd.
Model Tested: KN95 Folding Protective Mask
Date Tested: October 23, 2020

These findings pertain to the Chengde Technology Co., Ltd., model KN95 Folding Protective Mask. The packaging and labeling for this product indicate that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator).

Thirty 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 99.95% and 98.83%, respectively. All thirty 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 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).
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Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059
Date Tested: October 23, 2020
Report Prepared: October 23, 2020
Manufacturer: Chengde Technology Co., Ltd.
Item Tested: KN95 Folding Protective Mask
Country of Certification: China (GB2626-2006)

<table>
<thead>
<tr>
<th>Filter</th>
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<th>Initial Filter Resistance (mmH₂O)</th>
<th>Initial Percent Leakage (%)</th>
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</table>

Minimum Filter Efficiency: 98.88%  Maximum Filter Efficiency: 99.94%

- 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.
**Evaluation of International Respirators**

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- Minimum Filter Efficiency: 99.83%  
- Maximum Filter Efficiency: 99.95%

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Minimum Filter Efficiency: 98.83%  Maximum Filter Efficiency: 99.92%

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PROTECTIVE
FACE MASK

PROVIDES AT LEAST 95% NON-OIL PARTICLE FILTRATION PROTECTION
SOFT, BREATHABLE INNER SHELL
ADJUSTABLE NOSE CLIP
LATEX FREE
DISPOSABLE

NON-MEDICAL RESPIRATOR (PM 2.5)

3 MASKS

NPPTL COVID-19 Response: International Respirator Assessment
PROTECTIVE FACE MASK
GB2626-2006 KN95

FITTING INSTRUCTIONS

1. Cup the respirator in your hand, with the nose-piece at your fingertips, allowing the ear-loops to hang freely below your hand.

2. Position the respirator under your chin with the nose-piece up.

3. Pull the ear loops securely over your ears.

4. Place the fingertips of both hands at the top of the nose-piece. Mold the nose-piece to the shape of your nose by pushing inward while moving your fingertips down both sides of the nose-piece.

5. The seal of the respirator on the face should be fit-checked prior to use.

Notice: Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to hazards. Do not use with beard or other facial hair that may inhibit contact between the face and the edge of the respirator.

THIS RESPIRATOR HELPS PROTECT AGAINST CERTAIN PARTICLES. MISUSE MAY RESULT IN SICKNESS OR DEATH. FOR PROPER USE, SEE FITTING INSTRUCTIONS ABOVE.

Manufactured by:
Chengde Technology Co., Ltd
No. 888-1088 Shiji Ave.,
Longgang Zhejiang, CN 325802

Storage conditions: temperature range: -20°C to +30°C
Maximum Relative humidity: < 80%
Best use within 2 years from the date of production

Batch No: 2020091134
Production Date: 18 Sep, 2020
Expiration Date: 17 Sep, 2022
Inspection Date: 18 Sep, 2020

Made in China

Distributed by:
Accelerate360, LLC
1955 Lake Park Drive, Suite 400
Smyrna, GA 30080 USA
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