

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Chengde Technology Co., Ltd.
Model Tested: KN95 Respirator Protective Mask
Date Tested: May 15, 2020

These findings pertain to the Chengde Technology Co., Ltd., KN95 Respirator Protective Mask. The packaging and labeling 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).

Thirty respirators were submitted for evaluation. The respirators were sampled into groups of ten 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 99.54% and 95.11%, 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 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: Chengde Technology Co., Ltd.

Item Tested: KN95 Respirator Protective Mask (Sample Group 1 of 3)

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	19.1	0.86	0.86	99.14
2	85	21.0	0.88	0.88	99.12
3	85	19.6	0.76	0.76	99.24
4	85	18.8	0.73	0.73	99.27
5	85	18.8	0.79	0.79	99.21
6	85	19.8	0.72	0.72	99.28
7	85	19.8	0.82	0.82	99.18
8	85	19.1	0.80	0.80	99.20
9	85	21.4	0.87	0.87	99.13
10	85	19.3	0.82	0.82	99.18
Minimum Filter Efficiency: 99.12			Maximum Filter Efficiency: 99.28		

- 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 COVID-19 Response: International Respirator Assessment

Test: Modified TEB-APR-STP-0059

Date Tested: May 15, 2020

Report Prepared: May 16, 2020

Manufacturer: Chengde Technology Co., Ltd.

Item Tested: KN95 Respirator Protective Mask (Sample Group 2 of 3)

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

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
11	85	18.6	0.86	0.86	99.14
12	85	18.3	4.87	4.87	95.13
13	85	19.9	1.08	1.08	98.92
14	85	19.1	1.90	1.90	98.10
15	85	18.9	1.94	1.94	98.06
16	85	19.2	2.66	2.66	97.34
17	85	18.5	4.89	4.89	95.11
18	85	20.2	1.31	1.31	98.69
19	85	20.4	1.04	1.04	98.96
20	85	22.4	1.10	1.10	98.90
Minimum Filter Efficiency: 95.11			Maximum Filter Efficiency: 99.14		

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NPPTL COVID-19 Response: International Respirator Assessment

Test: Modified TEB-APR-STP-0059

Date Tested: May 15, 2020

Report Prepared: May 16, 2020

Manufacturer: Chengde Technology Co., Ltd.

Item Tested: KN95 Respirator Protective Mask (Sample Group 3 of 3)

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

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	23.1	0.61	0.61	99.39
22	85	23.6	0.70	0.70	99.30
23	85	22.2	0.67	0.67	99.33
24	85	22.0	0.50	0.50	99.50
25	85	21.2	0.46	0.46	99.54
26	85	21.8	0.65	0.65	99.35
27	85	21.3	0.77	0.77	99.23
28	85	20.9	0.57	0.57	99.43
29	85	22.8	0.78	0.78	99.22
30	85	22.3	0.50	0.50	99.50
Minimum Filter Efficiency: 99.22			Maximum Filter Efficiency: 99.54		

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KIN95
Respirator Protective Mask

FITTING INSTRUCTIONS:

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1. Cup the respirator in your hand, with the nose-piece at your fingertips, allowing the headbands to hang freely below your hand.
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2. Position the respirator under your chin with the nose-piece up.
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3. Pull the top strap over your head, resting it high at the top back of your head. Pull the bottom strap over your head and position it around the neck below ears.
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4. Place the fingertips of both hands at the top of the metal 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.
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5. The seal of the respirator on the face should be fit-checked prior to wearing in the work area.

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 beards or other facial hair that may inhibit contact between the face and the edge of the respirator.

For language instructions, scan the QR code




Français English Español

INSTRUCTIONS:
Before use, wearer must read and understand user's instructions inside. Make sure it is correctly selected and fitted. Misuse may result in sickness.

Nota:
Antes de usar, el usuario debe leer y entender las instrucciones de uso dentro. Asegurarse de seleccionar e instalar correctamente. El uso indebido puede causar enfermedades.

Instructions:
Vor der Benutzung muss der Benutzer die Anweisungen des Benutzers im Inneren lesen und verstehen. Stellen Sie sicher, dass Sie sicher und korrekt mit dem Atemschutzgerät umgehen. Ein unsicherer Gebrauch kann zu Krankheiten führen.

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

Accelerate
1955 Lake Park Drive, Suite 400
Smyrna, GA 30080, USA



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CE EN 149:2001+A1:2009
FFP2 CERTIFICATED

LOT:2020/04/20
WXP:2023/04/19



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