

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Chengde Technology Co., Ltd.

Model Tested: Folding Protective Mask (Non-Medical)

Date Tested: February 12, 2021

These findings pertain to the Chengde Technology Co., Ltd., model Folding Protective Mask (Non-Medical). 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 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 99.87% and 96.48%, 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 \(during known shortages\)](#).

## Evaluation of International Respirators

**Test:** Modified TEB-APR-STP-0059

**Date Tested:** February 12, 2021

**Report Prepared:** February 16, 2021

**Manufacturer:** Chengde Technology Co., Ltd.

**Item Tested:** Folding Protective Mask (Non-Medical)

**Country of Certification:** China (GB2626-2006)

Pictures have been added to the end of this report.

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	28.0	0.76	0.76	99.24
2	85	29.8	0.46	0.46	99.54
3	85	24.5	0.34	0.34	99.66
4	85	26.9	0.36	0.36	99.64
5	85	27.1	0.82	0.82	99.18
6	85	31.0	0.35	0.35	99.65
7	85	23.9	0.89	0.89	99.11
8	85	30.8	0.46	0.46	99.54
9	85	32.8	0.29	0.29	99.71
10	85	31.8	0.13	0.13	99.87
<b>Minimum Filter Efficiency: 99.11%</b>			<b>Maximum Filter Efficiency: 99.87%</b>		

- 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.

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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
11	85	23.2	1.31	1.31	98.69
12	85	28.7	0.19	0.19	99.81
13	85	24.3	0.24	0.24	99.76
14	85	31.0	0.26	0.26	99.74
15	85	22.7	0.62	0.62	99.38
16	85	22.3	0.61	0.61	99.39
17	85	21.3	0.98	0.98	99.02
18	85	27.1	0.21	0.21	99.79
19	85	25.5	0.90	0.90	99.10
20	85	25.7	0.90	0.90	99.10
<b>Minimum Filter Efficiency: 98.69%</b>			<b>Maximum Filter Efficiency: 99.81%</b>		

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21	85	24.4	0.40	0.40	99.60
22	85	26.6	0.86	0.86	99.14
23	85	29.5	1.05	1.05	98.95
24	85	30.3	0.31	0.31	99.69
25	85	30.2	0.22	0.22	99.78
26	85	16.7	3.52	3.52	96.48
27	85	29.8	0.28	0.28	99.72
28	85	25.5	0.84	0.84	99.16
29	85	35.0	0.33	0.33	99.67
30	85	27.8	0.49	0.49	99.51
<b>Minimum Filter Efficiency: 96.48%</b>			<b>Maximum Filter Efficiency: 99.78%</b>		

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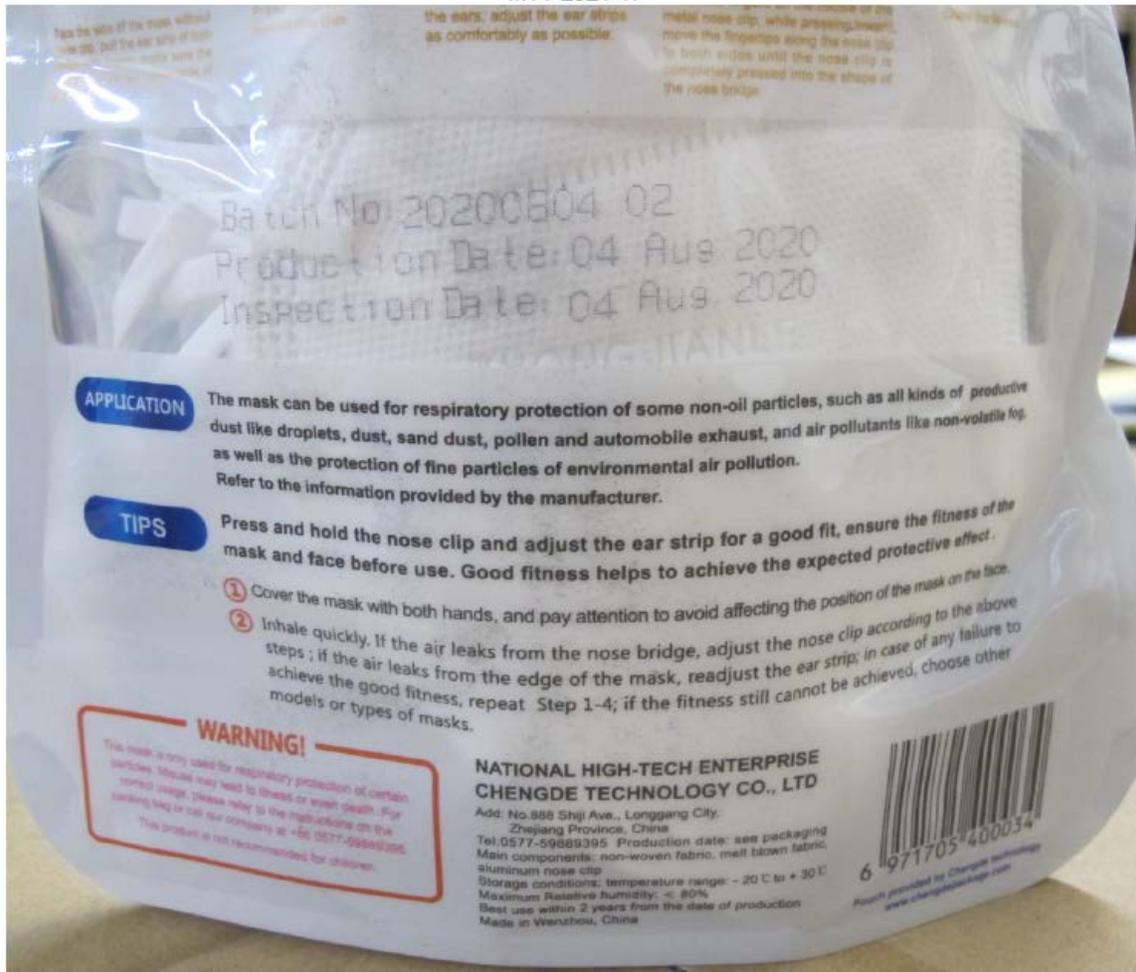




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<h1>合格证</h1> CERTIFICATE OF CONFORMITY	
产品名称：KN95折叠式防护口罩（非医用） Product name: KN95 Folding Protective Mask (Non-Medical)	
执行标准：GB2626-2006 Executive Standard : GB2626-2006	
品 牌：中健乐 Brand: Zhongjianle	
产品规格：160*105mm Product specification : 160*105mm	
主要原料：51% 无纺布+29%熔喷布+20%热风棉 Main Material : 51% Non Woven+29% Meltblown+20% Hot air cotton	
产品颜色：白色 Colors : White	产品批号：见包装袋 Batch No : See packing bag
生产日期：见包装袋 Production Date : See packing bag	检验日期：见包装袋 Inspection date : See packing bag
使用周期：一次性 Use cycle : disposable	有效期： <b>合格</b> Shelf life : 2 years
产品型号：CD9501B Product Type : Type CD9501B	
生产企业：诚德科技股份有限公司 Manufacturer : Chengde Technology Co., Ltd	
生产地址：浙江省龙港市世纪大道888-1088号 Add: No. 888 -1088 Shiji Ave, Longgang City, Zhejiang Province	
联系电话：057759889395 Tel : 86 577 59889395	
产品使用范围：本产品不得用于发热门诊隔离病房（区）、 隔离留观病房（区）手术室、隔离重症监护室等区域。 product range of use: This product should not be used in the area of isolated wards for fever diagnosis, isolated observation wards, operating rooms, isolated wards, etc.	
本产品为非医疗器械 及供应急使用 THIS PRODUCT IS A NON-MEDICAL DEVICE MADE IN CHINA	

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