

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Ningbo Yixin Intelligent Technology Co., Ltd.

Model Tested: Disposable Face Mask

Date Tested: June 3, 2020

These findings pertain to the Ningbo Yixin Intelligent Technology Co., Ltd., Disposable Face Mask. The information provided with this product indicates that it meets GB/T 32610-2016 (the Chinese standard for Technical Specifications of Daily Protective Mask).

Fifteen hundred masks (30 boxes of 50) were submitted for evaluation. To obtain a sample size of 30, one mask was randomly sampled from 30 different boxes. The masks 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 39.50% and 8.70%, respectively. All thirty respirators measured less than 95%.

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:** June 3, 2020

**Report Prepared:** June 3, 2020

**Manufacturer:** Ningbo Yixin Intelligent Technology Co., Ltd.

**Item Tested:** Disposable Face Mask (Sample Group 1 of 3)

**Country of Certification:** China (GB/T 32610-2016)

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	10.6	67.9	67.9	32.10
2	85	5.5	76.8	77.3	22.70
3	85	8.0	68.4	68.4	31.60
4	85	4.3	81.7	83.5	16.50
5	85	5.7	77.4	78.1	21.90
6	85	6.0	79.1	79.1	20.90
7	85	5.5	78.7	78.7	21.30
8	85	5.7	78.9	79.3	20.70
9	85	4.5	82.8	82.8	17.20
10	85	7.0	66.9	67.0	33.00
<b>Minimum Filter Efficiency: 16.50</b>			<b>Maximum Filter Efficiency: 33.00</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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**Test:** Modified TEB-APR-STP-0059

**Date Tested:** June 3, 2020

**Report Prepared:** June 3, 2020

**Manufacturer:** Ningbo Yixin Intelligent Technology Co., Ltd.

**Item Tested:** Disposable Face Mask (Sample Group 2 of 3)

**Country of Certification:** China (GB/T 32610-2016)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
11	85	10.6	60.5	60.5	39.50
12	85	7.7	72.0	72.0	28.00
13	85	6.9	73.3	73.3	26.70
14	85	3.2	78.7	81.5	18.50
15	85	5.5	81.7	82.2	17.80
16	85	5.2	85.9	86.9	13.10
17	85	2.5	88.0	88.1	11.90
18	85	5.5	80.8	80.8	19.20
19	85	8.7	77.5	77.5	22.50
20	85	6.1	79.1	79.3	20.70
<b>Minimum Filter Efficiency: 11.90</b>			<b>Maximum Filter Efficiency: 39.50</b>		

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

**Date Tested:** June 3, 2020

**Report Prepared:** June 3, 2020

**Manufacturer:** Ningbo Yixin Intelligent Technology Co., Ltd.

**Item Tested:** Disposable Face Mask (Sample Group 3 of 3)

**Country of Certification:** China (GB/T 32610-2016)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	7.2	70.2	70.2	29.80
22	85	2.8	88.7	91.3	8.70
23	85	5.0	81.2	82.5	17.50
24	85	8.2	60.7	60.7	39.30
25	85	6.5	77.1	77.1	22.90
26	85	5.6	67.9	67.9	32.10
27	85	7.8	75.9	75.9	24.10
28	85	3.8	86.7	88.6	11.40
29	85	4.0	83.3	85.3	14.70
30	85	7.0	70.8	70.8	29.20
<b>Minimum Filter Efficiency: 8.70</b>			<b>Maximum Filter Efficiency: 39.30</b>		

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# 合格证

QUALIFIED CERTIFICATE

品名: 一次性防护口罩(非医用)  
规格: 17.5x9.5(±0.5)cm 50片/包  
检验员: \_\_\_\_\_  
生产日期: 2020年4月20日  
执行标准: GB/T 32610-2016  
保质期: 2年  
批号: 20200420  
主要原料: 无纺布、熔喷布  
产品颜色: 蓝色、白色  
制造商: MADE IN CHINA

产品使用范围为: 本产品不得用于发热门诊隔离  
本产品经检验质量合格准予出厂

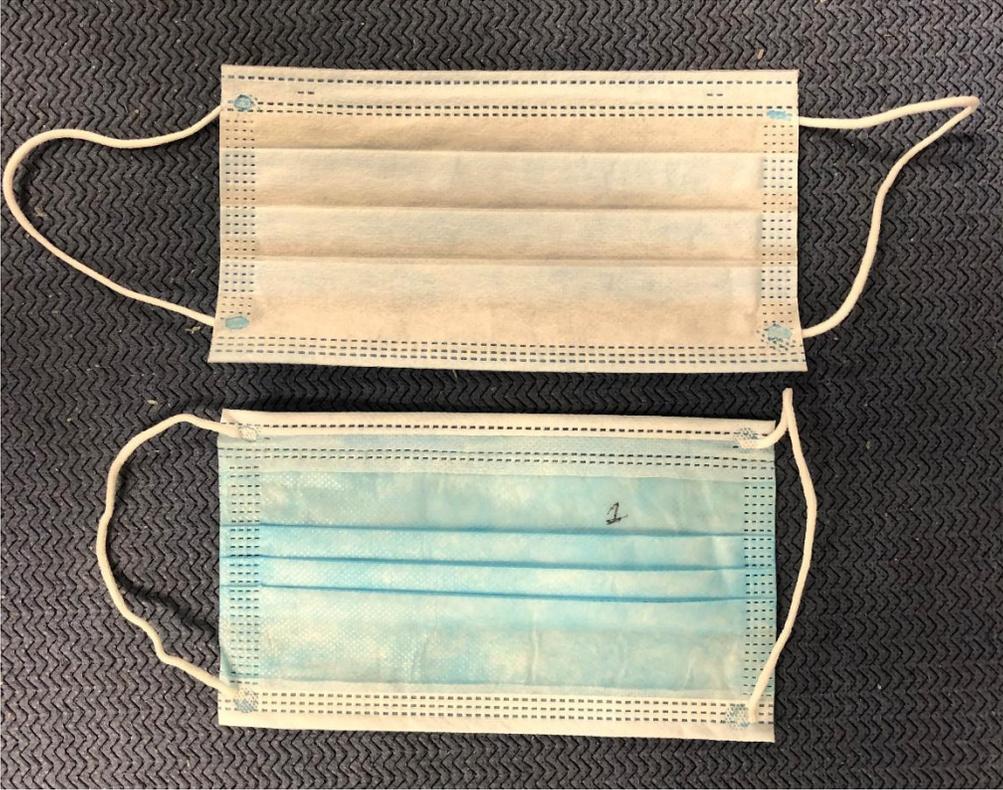


宁波依心智能科技股份有限公司

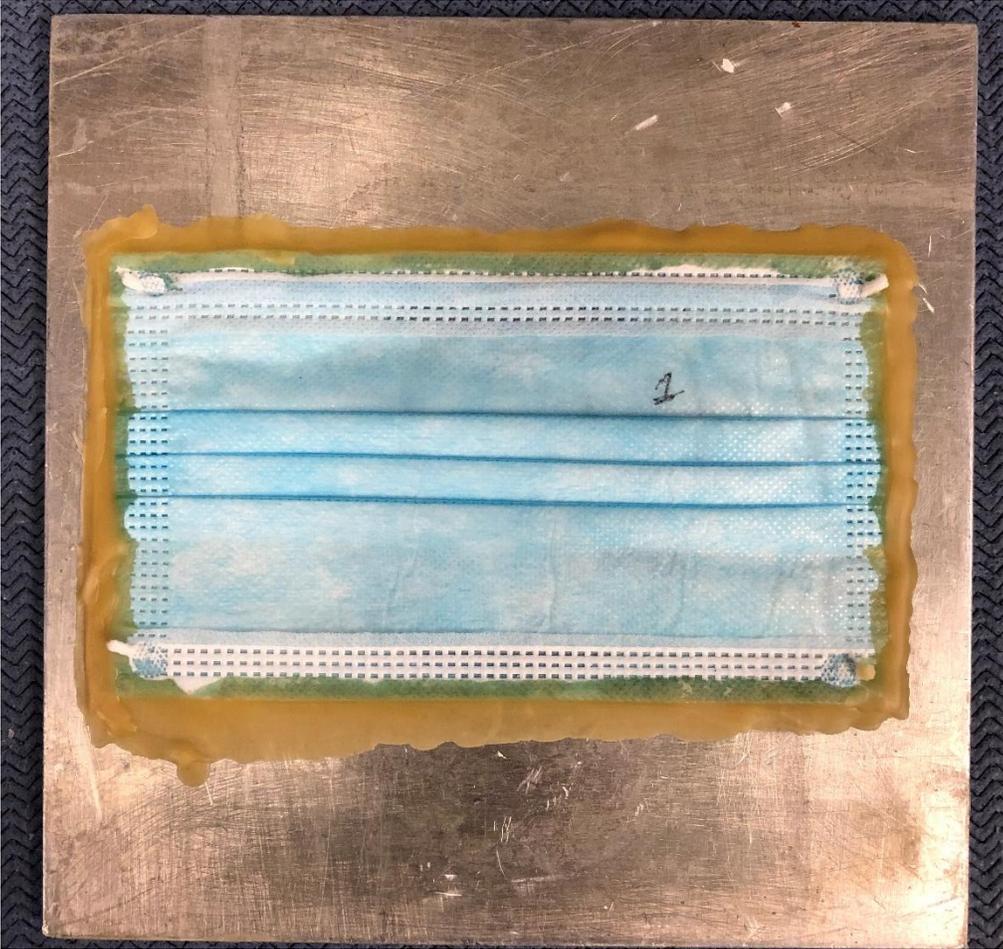
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