

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Huizhou RD Plastic Co., Ltd.

Model Tested: 02676

Date Tested: June 10, 2020

These findings pertain to the Huizhou RD Plastic Co., Ltd., model 02676. The packaging for this product indicates 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 99.73% and 95.97%, respectively. One respirator could not be tested (see photo on page 10). The remaining twenty-nine respirators all measured more than 95% efficiency.

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: June 10, 2020

Report Prepared: June 10, 2020

Manufacturer: Huizhou RD Plastic Co., Ltd.

Item Tested: 02676 (Sample Group 1 of 3)

Country of Certification: China (GB2626-2006)

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	11.1	0.31	0.31	99.69
2	85	9.9	0.59	0.60	99.40
3	85	12.4	0.28	0.28	99.72
4	85	19.9	0.51	0.51	99.49
5	85	18.8	0.56	0.56	99.44
6	85	10.9	0.47	0.47	99.53
7	85	17.0	0.27	0.27	99.73
8	85	19.9	0.62	0.62	99.38
9	85	18.5	0.85	0.85	99.15
10	85	21.7	0.39	0.39	99.61
Minimum Filter Efficiency: 99.15			Maximum Filter Efficiency: 99.73		

- 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 10, 2020

Report Prepared: June 10, 2020

Manufacturer: Huizhou RD Plastic Co., Ltd.

Item Tested: 02676 (Sample Group 2 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
11	85	18.2	0.40	0.40	99.60
12	85	23.2	0.49	0.49	99.51
13	85	11.5	0.46	0.46	99.54
14	85	10.3	0.49	0.52	99.48
15	85	19.4	0.63	0.63	99.37
16	85	16.3	4.03	4.03	95.97
17	85	11.1	0.53	0.53	99.47
18	85	11.9	0.33	0.33	99.67
19	85	16.2	1.09	1.09	98.91
20	85	16.5	1.01	1.01	98.99
Minimum Filter Efficiency: 95.97			Maximum Filter Efficiency: 99.67		

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NPPTL COVID-19 Response: International Respirator Assessment

Test: Modified TEB-APR-STP-0059

Date Tested: June 10, 2020

Report Prepared: June 10, 2020

Manufacturer: Huizhou RD Plastic Co., Ltd.

Item Tested: 02676 (Sample Group 3 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	18.5	0.36	0.36	99.64
22	85	Defective	Defective	Defective	Defective
23	85	9.9	0.59	0.61	99.39
24	85	9.7	0.51	0.52	99.48
25	85	19.7	0.67	0.67	99.33
26	85	18.2	0.45	0.45	99.55
27	85	10.7	0.41	0.41	99.59
28	85	12.1	0.60	0.60	99.40
29	85	10.0	0.64	0.65	99.35
30	85	11.2	0.51	0.51	99.49
Minimum Filter Efficiency: 99.33			Maximum Filter Efficiency: 99.64		

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产品合格证
Product Certification

品名: KN95防护口罩 (非医用)
型号: 02676
规格: 15.2 x 10.5CM
数量: 1个
检验: 合格
生产日期: 2020年5月15日
有效期: 3年
执行标准: GB2626-2006 KN95
生产批号: 02676/4155/ID-HRD/150520
面料: 44.1% 无纺布, 29.4% 熔喷布, 26.5% 热风棉
生产企业: 惠州市欣佳煜轻胶制品有限公司
地址: 中国广东惠州仲恺高新区沥林镇洋沥管理区光头岭村
联系电话: 86-752-5709655



Product Name: KN95 Protective Masks (Non-medical)
Model: 02676
Specification: 15.2x10.5cm
Quantity: 1 pc
Inspect: Pass
Production Date: May15, 2020
Valid for: Three Years
Executive standard: GB2626-2006 KN95
Production batch: 02676/4155/ID-HRD/150520
Fabric: 44.1% Non-woven fabric, 29.4% Melt-blown, 26.5% Hot air cotton
Manufacturer: HUIZHOU RD PLASTIC CO., LTD.
Address: GUANGTOULING VILLAGE, BANLI MANAGEMENT DISTRICT, LILINTOWN, ZHONGKAI GAOXIN DISTRICT, HUIZHOU, GUANG DONG 516035 CHINA
Tel: 86-752-5709655



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