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).
NPPTL COVID-19 Response: International Respirator Assessment

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)

<table>
<thead>
<tr>
<th>Filter</th>
<th>Flow Rate (Lpm)</th>
<th>Initial Filter Resistance (mmH2O)</th>
<th>Initial Percent Leakage (%)</th>
<th>Maximum Percent Leakage (%)</th>
<th>Filter Efficiency</th>
</tr>
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<tbody>
<tr>
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<td>21.7</td>
<td>0.39</td>
<td>0.39</td>
<td>99.61</td>
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</table>

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.
NPPTL COVID-19 Response: International Respirator Assessment

Test: Modified TEB-APR-SP-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)

<table>
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<th>Initial Percent Leakage (%)</th>
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</table>

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-SP-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)

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<th>Filter Efficiency</th>
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</tbody>
</table>

Minimum Filter Efficiency: 99.33  Maximum Filter Efficiency: 99.64

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Fitting Instructions

1. Position the respirator in your hands with the nose piece at your fingertips.

2. Hold respirator in your hand as shown, with the left hand holding the left strap and the right hand holding the right strap.

3. Place the respirator over the nose, mouth and chin. Pull the left and right strap so that the top of the strap goes above the ear and the bottom of the strap goes below the ear.

4. Place your fingertips from both hands at the top of the metal nose clip (if present). Slide fingertips down both sides of the metal strip to mold the nose area to the shape of your nose.

5. Checking for tightness, exhale sharply, negative pressure should be felt in the mask, re-adjust or repeat step 4 as necessary.

WARNING: Do NOT wear the respirator with beards or other facial hair that interferes with direct contact between the face and the edge of the respirator, or any other conditions that may prevent a good face-seal.

This is to inform that the face mask shelf life is 3 years from the date of manufacturing if they are kept in their original package and stored under the following conditions: Temperature between -15 to 35°C and relative Humidity of less than 70%.

Item # 02676
Made in China
KN95_HRD_1PK_CS_ENO_081920

Manufactured for:
CREATIVE CONCEPTS MANUFACTURING LTD.
Suite F2 I 3F Phase 2 I Hang Fung Ind.Bldg. I Ntns
Hok Yuen Street I Hung Hom I Kowloon I Hong Kong
www.creativeconceptsmg.net

Distributed by:
CREATIVE CONCEPTS USA
Nobocket I NJ 07001 I USA

Manufactured by:
Huizhou RD Plastic Co. Ltd.
Address: Guangning Village I Bani Management District
Liting Town I Zhongli City District
Huizhou I Guangdong I 516035 I CHINA
Tel: 86-752-5700555

Batch#: 02676/41554D-HRD/160520
2020-05-15 2023-06-15
NPPTL COVID-19 Response: International Respirator Assessment

Product Certification

Product Name:
KN95 Protective Masks (Non-medical)

Model: 02676
Specification: 15.2x10.5cm
Quantity: 1 pc
Inspect: Pass

Production Date: May 15, 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, LULIN TOWN, ZHONGKAI GAOXIN DISTRICT, HUIZHOU, GUANG DONG 516035 CHINA
Tel: 86–752–5709655
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