NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Fujian Little Forest Technology Co., Ltd.
Model Tested: Protective Mask
Date Tested: June 1, 2020


Ten respirators were submitted 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.

A certificate of approval was provided with the samples received; however, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency was 96.89% and 24.30%, respectively. Two respirators measured more than 95%. Eight respirators measured less 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: June 1, 2020
Report Prepared: June 1, 2020
Manufacturer: Fujian Little Forest Technology Co., Ltd.
Item Tested: Protective Mask

<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>
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<tbody>
<tr>
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<td>11.2</td>
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<td>10.2</td>
<td>50.9</td>
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<td>49.10</td>
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</tbody>
</table>

Minimum Filter Efficiency: 24.30  Maximum Filter Efficiency: 96.89

- 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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Protective mask

[Product name] protective mask
[Main material] The surface layer is PP nonwoven fabric, and the intermediate filter layer is electrostatic meltblown filter material.
[Scope of application] It is suitable for filtering in daily air pollution environments unless oily particles are worn.
[Executive standard No.] N95/KN95
[Specifications] Medium (adult size)
[Instructions] How to wear: Face the mask without a nose clip, pull the ear bands on both sides with both hands, so that the nose clip is above the mask; use the mask and the chin; place Pull the ear strap behind the ear, adjust the ear strap to feel as comfortable as possible; place your hands and fingers in the middle of the nose clip, when pressing inward, move the fingertips along the nose clip to the sides until the nose clip is fully pressed into the shape of the bridge of the nose until. Using only one hand to pinch the mask nose clip may affect the tightness of the mask.
[Precautions] Use appropriate masks according to air pollution: check to make sure the mask packaging is intact; check the appearance before wearing; read the use method, and wear the protective mask correctly according to the wearing method (difficult breathing or feeling) When the resistance is significantly increased, long-term use is not recommended; if discomfort or adverse reactions occur during wearing, it is recommended to stop using it; when the concentration of fine air particles is greater than 500ug/m³, it is recommended to reduce outdoor activities.
[Storage and transportation conditions] During storage and transportation, it should be guaranteed to be sealed, not damaged, not stained, and protected from moisture. Pay attention to fire, acid, alkali, and avoid direct sunlight.
[Recommended use time] 4-8 hours for severely polluted environments; other environments can be extended appropriately.
[Storage period] 2 years from the production date
[Manufacturer name] Fujian Little Forest Technology Co., Ltd.
[Address] 68 Maofu Road, Houmao Industrial Zone, Fengze District, Quanzhou City, Fujian Province
[After-sales service phone] 4000878399
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