NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Chongqing Luche Technology Co., Ltd.
Model Tested: Medical Protective Mask
Date Tested: November 20, 2020

These findings pertain to the Chongqing Luche Technology Co., Ltd., model Medical Protective Mask. The packaging and labeling for this product indicate it meets GB19083-2010 (the Chinese standard for Technical Requirements for Protective Face Mask for Medical Use).

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](#).

The maximum and minimum filter efficiency was 99.96% and 99.89%, respectively. All ten 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.

This product has head bands/straps. 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).
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Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: November 20, 2020

Report Prepared: November 20, 2020

Manufacturer: Chongqing Luche Technology Co., Ltd

Item Tested: Medical Protective Mask

Country of Certification: China (GB19083-2010)

<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>
<td>1</td>
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<tr>
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<td>0.11</td>
<td>99.89</td>
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</table>

Minimum Filter Efficiency: 99.89  Maximum Filter Efficiency: 99.96

- 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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Product Name: Medical Protective Mask

Product Model Specification:
N95 Respirator / Moisture-proof

Packaging and Disinfection

1. Not suitable for respiratory protection against harmful gases and vapors. Not suitable for smoke, noxious gases, toxic gases and the breath protection equipment, e.g. the concentration of toxic gas, anaesthetic, aromatic, coolant, rust, etc. of the gas exceeds 20 times the allowable exposure limit or occupational exposure limit (GB2626, etc.). This product mask does not produce oxygen.

2. Before use, please check whether the packaging is in good condition, ensure the outer packaging is not damaged, gas tight, and seal during the validity period.

3. Should ensure that the mask seal is tight over the nose bridge to the mandible to achieve the desired protective effect.

4. This product is disposable. It is forbidden to reuse.

5. If the package is found damaged before use, it is strictly prohibited to use.

6. Store in a clean and dry place.

7. If the mask is not covered or wearing resistance, please ensure the immediate application and replace the use of respirator.

8. Prolonged use in accordance with the requirements of hospitals and the environmental protection department for processing.

Storage conditions:
The product should be stored at room temperature in a dry environment, away from dust, moisture, and sunlight. Keep away from fire and flammable substances.

Produced Date: Production Lot Number / See package

Valid for 2 years

GB19083-2010 N95 Particulate Respirator

High Filter Efficiency
Lower Resistance
Fit the Face Perfectly
Comfortable Use

Made in China

20 Pieces

Mt Sity
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Fitting Instructions:
1. Cup the respirator in your hand with the nosepiece at your fingertips, allowing the headbands to hang freely below your hand.
2. Cup the respirator firmly against your face with the nosepiece in the crevice of your nose.
3. Pull the top strap over your head resting it high at the top back of your head.
4. Pull the bottom strap over your head positioning it around the nape of your neck.
5. Press soft nosepiece to conform comfortably around the nose.

Check for leak-tightness (facial fit) as follows:
- Place both hands over the respirator and exhale sharply.
- Sensitive pressure should be inside the respirator.
- If you feel air escaping around the edges, re-adjust the respirator and tighten the nose-piece.
- Repeat the procedure until satisfactory face-fit has been achieved.

GB19083-2010 N95
N95 Particulate Respirator

20 Pieces Made in China
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