NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Tongcheng Huixin PPE Co., Ltd.
Model Tested: 2011
Date Tested: August 11, 2020

These findings pertain to the Tongcheng Huixin PPE Co., Ltd., Model 2011. The packaging for this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator).

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.

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 96.11% and 94.42%, respectively. Nine respirators measured more than 95%. One respirator 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 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).
Test: Modified TEB-APR-STP-0059
Date Tested: August 11, 2020
Report Prepared: August 11, 2020
Manufacturer: Tongcheng Huixin PPE Co., Ltd.
Item Tested: 2011
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>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>14.1</td>
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<td>12.7</td>
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<td>95.72</td>
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</tbody>
</table>

Minimum Filter Efficiency: 94.42%  Maximum Filter Efficiency: 96.11%

- 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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Please identify Huixin trademark

Safety warning:
1. It is not suitable for use when the oxygen concentration is lower than 19.6%. 2. Do not use when the dye concentration is too large, as it is not suitable for use.
3. Harmful gases and vapors are not suitable for use.
4. When wearing the mask and feeling difficult to breathe or dizzy, go to a place with good ventilation immediately.

Scope of use:
The mask is made of environmentally-friendly non-woven material, which is suitable for use in chemical industries, leather, shipbuilding, containers, automobile manufacturing, painting, and dyeing, mining area sanitation, metal manufacturing, rubber, battery, etc., and can also protect against droplets, respiratory excrement, and various pollutants in close distances.

Warm tips:
Ordinary gauze masks due to the gauze mesh are too large, for the diameter or less than 5 microns. Dust, dust control efficiency is basically no, into the human body, to the lungs is bringing serious health threats.

Wear that:
1. Place the bag of the mask without nose clip. Position the nose clip above the mask.
2. Pull the mask under your chin and push it down. The headband is pulled over the top of the head and placed at the back of the neck. Under the ear.
3. Before entering the work area, must check the tightness of the mask to the face. 4. Close the mask with both hands to ensure the mask is not loose. 5. Breathing strongly. As air flows through the nose, it should be able to feel the mask moving. As an air leak is when the side or top do not leak, good tightness cannot be obtained. Should repeat steps 1-4. If no air flows and will not leak, go to work.
合格证

产品名称：自吸过滤式防颗粒物呼吸器
产品品种、规格型号：随弃式面罩、Kn95
执行标准： GB2626-2006KN95
生产日期： 2020.04.07
检验日期： 2020.04.07
检验员： 004
有效期： 3年
生产厂家：桐城市惠新劳保有限公司
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