

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 \(during known shortages\)](#).

Evaluation of International Respirators

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)

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	14.1	4.25	4.25	95.75
2	85	12.8	3.89	3.89	96.11
3	85	11.3	4.80	4.80	95.20
4	85	14.2	4.16	4.16	95.84
5	85	13.3	4.66	4.66	95.34
6	85	13.0	4.96	4.96	95.04
7	85	12.4	4.53	4.53	95.47
8	85	13.9	5.35	5.58	94.42
9	85	11.6	4.27	4.27	95.73
10	85	12.7	4.28	4.28	95.72
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.



Please identify Huixin trademark

Wear that



1. Face the face of the mask without nose clip. Position the nose clip above the mask.



4. Place your fingers on your metal nose. Clip middle, from middle side to nose. The beam shape is pressed against the nose until it is lifted. Press completely into the bridge of the nose. Using only one hand to hold the nose clip may affect the tightness of the mask.



2. Put 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.



5. before entering the work area, must check the tightness of the mask to the face.
A) cover the mask with both hands to avoid affecting the position of the mask on the face.
B) breathe out strongly. As air from the nose. Check overflow, should be according to step 4 again.
Adjust nose clip: As air from the edge of the mask. Edge overflow, should readjust the ear band. If good tightness cannot be obtained, should Repeat steps 1-4.
C) if no air overflows are felt, please Go to work.



3. Pull the upper headband over your head. Place above the back of the neck and ear.

Safety warning:

1. It is not suitable for use when the oxygen concentration is lower than 19.5%. 2. dim When the dye concentration is too large, it is not suitable for use. 3. Harmful gases and vapors no 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 chemical industry, leather, shipbuilding, container, automobile manufacturing, printing and dyeing, mining area sanitation, metal manufacturing, rubber, battery, etc., and can also protect against droplets, respiratory excrement and various pollutants in close distance.

Warm tips:

Ordinary gauze mask due to the gauze mesh is too large, for the diameter of less than 5 microns. Dust, dust control efficiency is basically no. into the human body, to the lungs to bring strict. Make health threats.

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

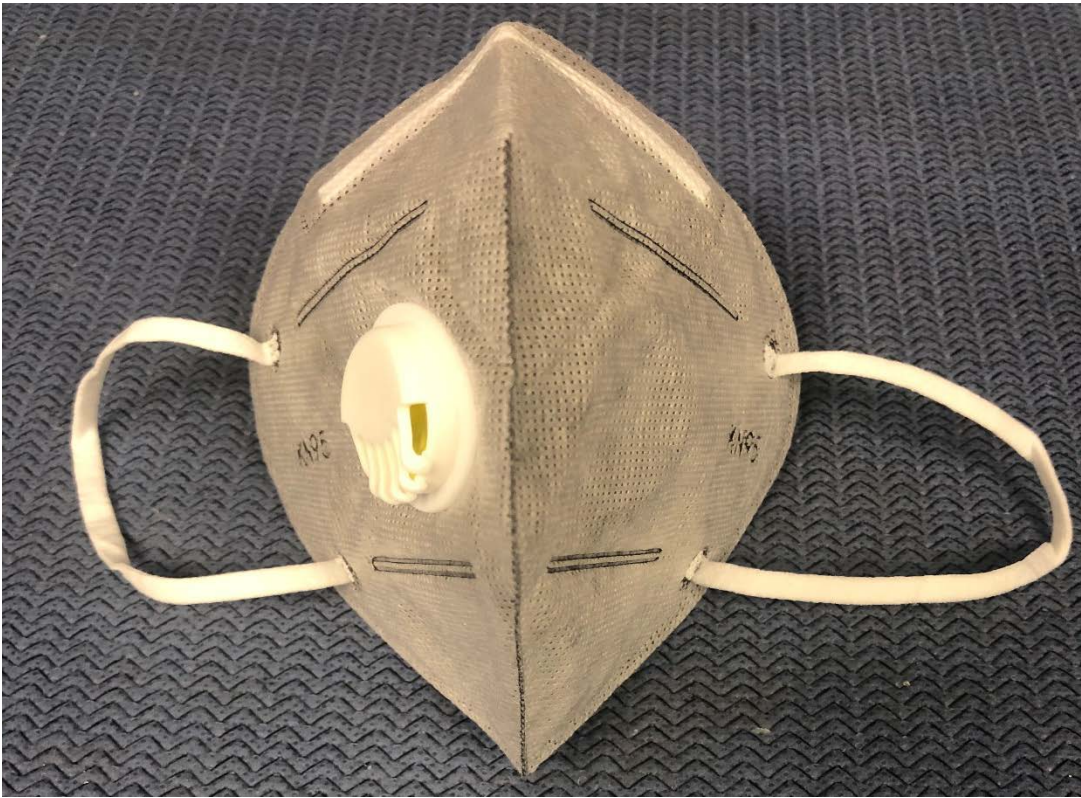
检验员：004

有效期：3年

生产厂家：桐城市惠新劳保用品有限公司



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