

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Jiangmen Huadizhiguang Lighting Co., Ltd.

Model Tested: KN95 Protective Mask

Date Tested: May 26, 2020

These findings pertain to the Jiangmen Huadizhiguang Lighting Co., Ltd., KN95 Protective Mask. 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 94.92% and 70.60%, respectively. All ten 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: May 26, 2020

Report Prepared: May 26, 2020

Manufacturer: Jiangmen Huadizhiguang Lighting Co., Ltd.

Item Tested: KN95 Protective Mask

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	6.7	28.3	28.3	71.70
2	85	7.4	5.98	6.16	93.84
3	85	7.7	5.02	5.08	94.92
4	85	5.9	21.3	23.6	76.40
5	85	7.7	6.03	6.11	93.89
6	85	6.2	27.3	29.4	70.60
7	85	7.9	7.05	7.05	92.95
8	85	7.3	6.08	6.29	93.71
9	85	7.9	5.44	5.44	94.56
10	85	8.1	6.30	6.30	93.70
Minimum Filter Efficiency: 70.60			Maximum Filter Efficiency: 94.92		

- 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

WEAR A FACE MASK



Hands should be washed clean before wearing masks, gently hold up and down on both sides to face.



Open folds, downward until completely covering the chin with out gap.



Gently press the nose cartilage to joint the nose shape, fit closely.

PRODUCT DESCRIPTION

This KN95 mask helps protect against certain particles. KN95 is an industry-standard and means that the mask provides the intended effectiveness of filtering 95 percent of particles with a mass median diameter of 0.3 micrometers. Please note however that wearing a mask cannot eliminate the risk of infection as it depends on the proper fit of the wearer.

Jiangmen Huadizhiguang Lighting Co., Ltd

ADD:Room E, 5 Floor, 2nd Building,
#6 Xiachang Road, Hetang Town Pengjiang District, Jiangmen City,
Guangdong Province, China.

Execution standard:GB-2626-2006

NON-MEDICAL / Personal and General Purpose Use Only

PRODUCT MATERIAL

The mask consists of a mask body, a mask band and a nose clip. The mask body is made of non-woven fabric, meltblown-non-woven fabric.

PRODUCT DESCRIPTION

This KN95 mask helps protect against certain particles. KN95 is an industry-standard and means that the mask provides the intended effectiveness of filtering 95 percent of particles with a mass median diameter of 0.3 micrometers. Please note however that wearing a mask cannot eliminate the risk of infection as it depends on the proper fit of the wearer.

PRODUCTION DATE

Production Date: 25th April, 2020
Shelf life: 2 years

Jiangmen Huadizhiguang Lighting Co., Ltd

ADD:Room E, 5 Floor, 2nd Building,
#6 Xiachang Road, Hetang Town Pengjiang District, Jiangmen City,
Guangdong Province, China.

Execution standard:GB-2626-2006

NON-MEDICAL / Personal and General Purpose Use Only

NPPTL COVID-19 Response: International Respirator Assessment



NPPTL COVID-19 Response: International Respirator Assessment



NPPTL COVID-19 Response: International Respirator Assessment



NPPTL COVID-19 Response: International Respirator Assessment

