

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangdong Kaper Protection Technology Co., Ltd.

Model Tested: KP-K02 W/T Valve

Date Tested: June 12, 2020

These findings pertain to the Guangdong Kaper Protection Technology Co., Ltd., model KP-K02 W/T Valve. The packaging and labeling for this product indicate that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator) and EN149:2001+A1:2009 (the European standard for Respiratory Protective Devices – Filtering Half Masks to Protect Against Particles – Requirements, Testing, Marking).

Thirty respirators were submitted for evaluation. The respirators were sampled into groups of ten 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 91.48% and 86.90%, respectively. All thirty 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 12, 2020

Report Prepared: June 12, 2020

Manufacturer: Guangdong Kaper Protection Technology Co., Ltd.

Item Tested: KP-K02 W/T Valve (Sample Group 1 of 3)

Country of Certification: China (GB2626-2006, EN149:2001+A1:2009)

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	10.6	9.70	9.70	90.30
2	85	13.6	9.82	9.82	90.18
3	85	14.7	9.96	9.96	90.04
4	85	12.1	10.1	10.1	89.90
5	85	13.8	11.5	11.5	88.50
6	85	14.6	10.3	10.3	89.70
7	85	13.6	10.8	10.8	89.20
8	85	14.3	10.3	10.3	89.70
9	85	12.2	9.39	9.39	90.61
10	85	14.3	10.6	10.6	89.40
Minimum Filter Efficiency: 88.50			Maximum Filter Efficiency: 90.61		

- 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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Test: Modified TEB-APR-STP-0059

Date Tested: June 12, 2020

Report Prepared: June 12, 2020

Manufacturer: Guangdong Kaper Protection Technology Co., Ltd.

Item Tested: KP-K02 W/T Valve (Sample Group 2 of 3)

Country of Certification: China (GB2626-2006, EN149:2001+A1:2009)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
11	85	12.7	9.92	9.92	90.08
12	85	15.8	10.1	10.1	89.90
13	85	14.1	10.6	10.6	89.40
14	85	12.1	10.4	10.4	89.60
15	85	15.4	10.5	10.5	89.50
16	85	11.2	9.94	9.94	90.06
17	85	13.0	9.53	9.53	90.47
18	85	11.9	10.8	10.8	89.20
19	85	11.8	10.3	10.3	89.70
20	85	12.9	10.4	10.4	89.60
Minimum Filter Efficiency: 89.20			Maximum Filter Efficiency: 90.47		

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Test: Modified TEB-APR-STP-0059

Date Tested: June 12, 2020

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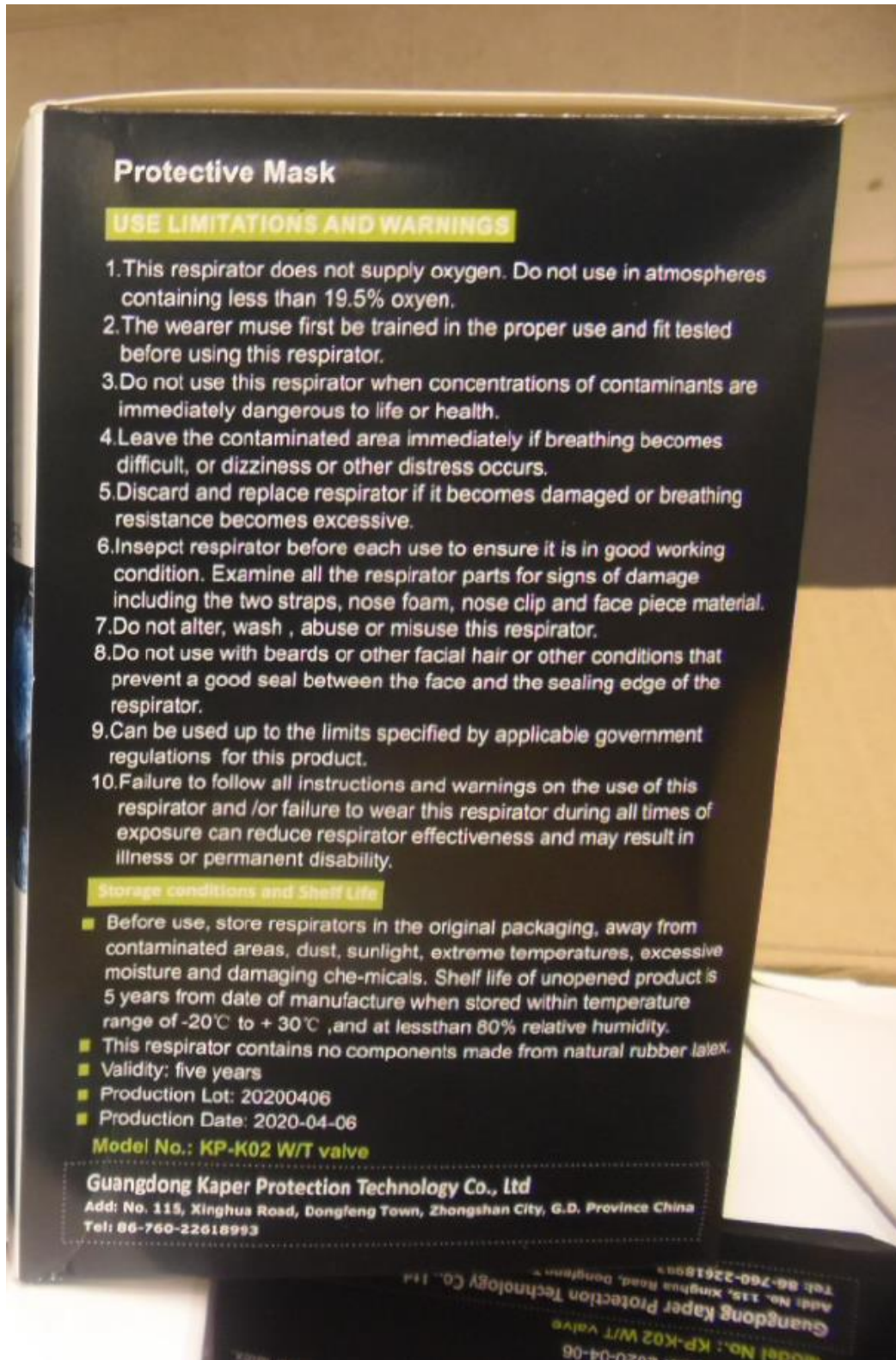
Item Tested: KP-K02 W/T Valve (Sample Group 3 of 3)

Country of Certification: China (GB2626-2006, EN149:2001+A1:2009)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	12.8	8.52	8.52	91.48
22	85	13.9	10.5	10.5	89.50
23	85	17.2	11.2	11.2	88.80
24	85	13.3	10.5	10.5	89.50
25	85	17.3	11.9	11.9	88.10
26	85	12.8	9.81	9.81	90.19
27	85	16.2	10.7	10.7	89.30
28	85	14.7	10.0	10.0	90.00
29	85	15.7	13.1	13.1	86.90
30	85	14.8	10.8	10.8	89.20
Minimum Filter Efficiency: 86.90			Maximum Filter Efficiency: 91.48		

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Ear-hook wearing method

1. With nosepiece facing away from you, hold the earloop strap in each hand with the nosepiece up.
2. Position the respirator under the chin.
3. Pull each strap over the ear. Adjust the straps as comfortable as possible.
4. Place the fingertips of both hands at the top of the metal nosepiece. Mold the nosepiece to the shape of the nose bridge by pushing inwards while moving your finger tips down both sides of the nosepiece. Pinching the respirator nosepiece using only one hand may result in less effective respirator fit.
5. The seal of the respirator on the face should be checked by the wearer prior to entering the work area.
 - a) Cover the front of the respirator with both hands, being careful not to disturb the position of the respirator.
 - b) Exhale sharply. If air leaks around the nose bridge, readjust the nosepiece as described in step 4. If air leaks at the respirator edges, work the straps back along the side of your hand. If you cannot achieve proper fit, repeat steps 1-4.
 - c) If no leakage is detected, then work may proceed.

Important Before use, the wearer must read and understand these User Instructions. Keep these instructions for reference. See information supplied by the manufacturer.

USE FOR

Particles such as those from grinding, sanding, sweeping, sawing, bagging, or processing minerals coal, iron ore, flour, metal, wood, pollen, and certain other substances. Liquid or non-oil based particles from sprays that do not also emit oil aerosols or vapors. Metal fumes produced from welding, brazing, cutting and other operations involving heating of metals.

DO NOT USE FOR

Do not use for gases and vapors, oil aerosols, or sandblasting; particulate concentrations that exceed either 10 times the occupational exposure limit or applicable government regulations, whichever is lower. This respirator does not supply oxygen. Do not use for particles in concentrations that exceed the maximum allowable concentration required by the applicable regulation and standard. The maximum allowable concentration is obtained by multiplying the Assigned Protection Factor (APF) provided by GB/T 18664 "election, Use and Maintenance of Respiratory Protective Equipment" and the permissible Occupational Exposure Limit (OEL) of the contaminant.

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