NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: AOK Tooling Limited (Shenzhenhai Medical Inc.)
Model Tested: 20180016-L
Date Tested: May 13, 2021

These findings pertain to the AOK Tooling Limited (Shenzhenhai Medical Inc.), model 20180016-L. The packaging and labeling indicate that it is a NIOSH-approved product, under approval number TC-84A-8131. The packaging for this product also indicates that it meets T/CTCA 7-2019 (the Chinese standard for Ordinary Protective Mask).

Ten respirators were submitted for evaluation. The samples were tested using the 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 99.59% and 96.98%, respectively. All ten respirators measured more than 95% filter efficiency.

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).
**NPPTL COVID-19 Response: International Respirator Assessment**

**Evaluation of International Respirators**

**Test:** Modified TEB-APR-STP-0059  
**Date Tested:** May 13, 2021  
**Report Prepared:** May 14, 2021  
**Manufacturer:** AOK Tooling Limited (Shenzhonghai Medical Inc.)  
**Item Tested:** 20180016-L  
**Country of Certification:** China (T/CTCA 7-2019); USA (42 CFR 84)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>19.1</td>
<td>0.46</td>
<td>0.52</td>
<td>99.48</td>
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<tr>
<td>2</td>
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<td>15.0</td>
<td>1.28</td>
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<td>98.55</td>
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<tr>
<td>3</td>
<td>85</td>
<td>15.0</td>
<td>0.93</td>
<td>1.02</td>
<td>98.98</td>
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<tr>
<td>4</td>
<td>85</td>
<td>15.1</td>
<td>1.39</td>
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<td>6</td>
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<tr>
<td>7</td>
<td>85</td>
<td>16.8</td>
<td>0.55</td>
<td>0.60</td>
<td>99.40</td>
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<tr>
<td>8</td>
<td>85</td>
<td>15.7</td>
<td>2.77</td>
<td>3.02</td>
<td>96.98</td>
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<tr>
<td>9</td>
<td>85</td>
<td>15.9</td>
<td>0.37</td>
<td>0.41</td>
<td>99.59</td>
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<tr>
<td>10</td>
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<td>11.8</td>
<td>0.65</td>
<td>0.89</td>
<td>99.11</td>
</tr>
</tbody>
</table>

**Minimum Filter Efficiency:** 96.98%  
**Maximum Filter Efficiency:** 99.59%

- 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.
**V Fold N95 B Mask**

**Name:** V Fold N95 B Mask (非医用)

**Model:** 20180016

**Spec.:** □ XL  □ L  □ M  □ S

**Quantity:** 10PCS

**执行标准:** 团标 T/CTCA 7-2019

**NIOSH number:** TC-84A-8131

**Main components:** Silicone 56%, Non-woven 28%, Melt-blown non woven 6%, Elastic 5%, Nose Piece 2%, Adjustment clip 3%.

**Distributor:** AOK Tooling Ltd.

**Manufacturer:** Shenzhenhai Medical Inc.

**Add.:** #8, Longtian 3Rd, Longtian Street, Pingshan Dist., Shenzhen, China

**Tel:** 86-0755-84112290

**Expiration date:** 3 years

**Production date:** 2020-04-11

**Lot No.:** 202004110100

Made in China
## NPPTL COVID-19 Response: International Respirator Assessment

| Name                      | 折叠式N95口罩 (非医用)  
V Fold N95 B Mask (Non-Medical) |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Model</td>
<td>20180016</td>
</tr>
<tr>
<td>Spec.</td>
<td>L</td>
</tr>
<tr>
<td>Standard</td>
<td>团标 T/CTCA 7-2019</td>
</tr>
<tr>
<td>NIOSH number</td>
<td>TC-84A-8131</td>
</tr>
</tbody>
</table>
| Main components           | 硅胶56%，无纺布28%，熔喷布6%，松紧带5%，鼻梁条2%，调节扣3%  
Silicone 56%, Non-woven 28%, Melt-blown non woven 6%, Elastic 5%, Nose Piece 2%, Adjustment Clip 3% |
| Production date           | 2020-04-11                                                    |
| Lot No.                   | 202004110100                                                   |
| Expiration date           | 3 years                                                       |
| Distributor               | 深圳市飞速精密模具有限公司  
AOK Tooling Ltd.                                                  |
| Manufacturer              | 深中海医疗用品（深圳）有限公司  
Shenzhenhai Medical Inc.                                           |
| Add.                      | 深圳市坪山区龙田街道龙田三路8号  
#8, Longtian 3Rd, Longtian Street, Pingshan Dist, Shenzhen, China |
| Tel                       | 86-0755-84112290                                              |
NPPTL COVID-19 Response: International Respirator Assessment

WORKPLACE/OCCUPATIONAL USER INSTRUCTIONS

20180016-L
V Fold NS95 Mark Large Size

When fitting or resealing, be aware that this is a large size mask and that other sizes may not fit properly.

User Instructions
(IMPORTANT: Keep these instructions for reference)
This respirator is composed of multiple rubber parts.

WARNING
This respirator helps protect against certain particles. Please ensure it is not damaged or deteriorated. For proper use, see the user instructions.

Respirator Use:
For protection against particles such as those from metal, wood, ink, dust, coal, saw dust, cotton, pumice, flour and obsidian, as well as liquids or low or low levels of contaminated areas that do not require ventilated areas or vacuums.

Do Not Use For:
Dusts and vapors, including those present in paint spraying operations, or any medium substances such as inclusions or condensation in the air. This respirator does not supply oxygen.

Bacterial Particles:
This respirator can help reduce airborne exposure to certain levels of biological agents but cannot eliminate the risk of contracting infections, illnesses or diseases. USHA and other government agencies have not established safe exposure limits for these contaminants.

Additional Use Limitations:
1. Impair the respirator for damage. Do not use if respirator appears damaged, does not fit properly or has been repaired before.
2. Failure to follow all instructions and use limitations for the respirator results in failure to wear it properly. This respirator is designed to provide protection if all instructions and use limitations are followed.
3. Do not allow the用户 to use the respirator if there is any exposure to the same contaminants that are usually encountered in use. This respirator is not designed for use by children.
4. Do not alter, abuse, or misuse the respirator.
5. Leave the respirator immediately and contact supervisor if exposure to dust, fiber, or other hazards occurs.
6. This respirator is designed for use by adults who are properly trained in its use and limitations. If the respirator is not designed to be used by children.

Removal Instructions:
1. Remove respirator as soon as possible and pull button down over your hand and remove respirator.

Manufactured by:
AOK Tooling Limited
Shen Zhen, China

THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATION:

<table>
<thead>
<tr>
<th>TC</th>
<th>Protection</th>
<th>Respirator</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA-151</td>
<td>N95</td>
<td>20180016-L</td>
</tr>
</tbody>
</table>

1. PROTECTION
   NR0-Particulate filter (>85% filter efficiency) is effective against particles of nanoscale materials that all may contain, may vary.

2. CAUTIONS AND LIMITATIONS
   A. Not for use in atmospheres containing less than 19.5% oxygen.
   B. Not for use in environments that are immediately dangerous to life or health.
   C. After use, respirators must be cleaned and maintained in accordance with NIOSH, CDC, and other regulatory requirements.
   D. Respirators are intended for use with N95, 100, and 200 series NIOSH-certified respirators.
   E. NIOSH does not recommend respirators for use as surgical masks.

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