

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Tianjin Benmo Medical Equipment Co., Ltd.

Model Tested: KN95 Folding Protective Mask

Date Tested: May 27, 2020

These findings pertain to the Tianjin Benmo Medical Equipment Co., Ltd., KN95 Folding 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 94.13% and 79.30%, 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 27, 2020

Report Prepared: May 29, 2020

Manufacturer: Tianjin Benmo Medical Equipment Co., Ltd.

Item Tested: KN95 Folding Protective Mask

Country of Certification: China (GB2626-2006)

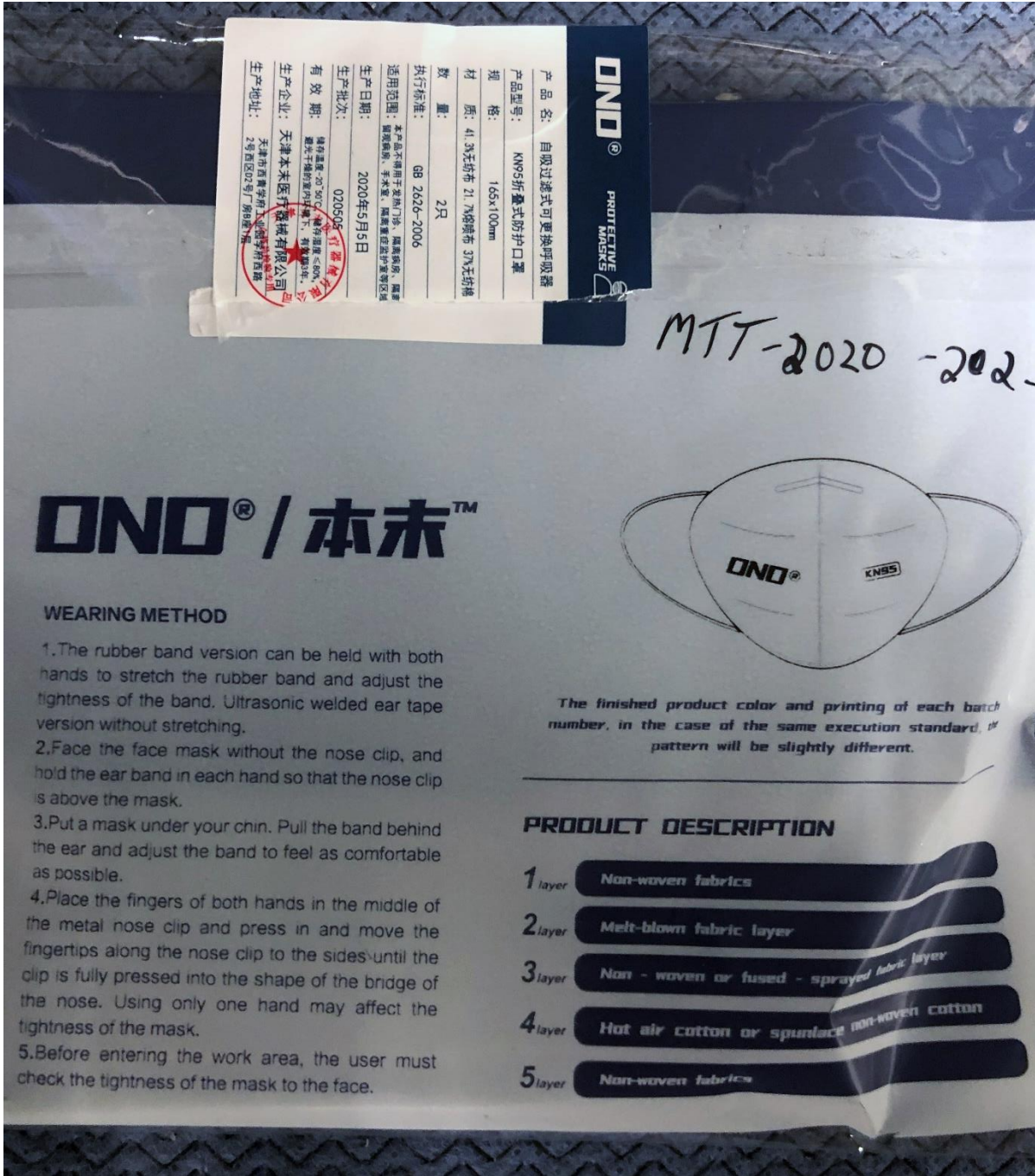
Pictures have been added to the end of this report.

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
1	85	12.8	9.79	9.79	90.21
2	85	10.8	20.70	20.70	79.30
3	85	11.7	5.87	5.87	94.13
4	85	11.1	6.08	6.08	93.92
5	85	7.5	16.60	16.60	83.40
6	85	7.0	13.80	13.80	86.20
7	85	11.7	8.05	8.050	91.95
8	85	9.9	10.90	10.90	89.10
9	85	6.3	11.10	11.10	88.90
10	85	8.2	8.26	8.26	91.74
Minimum Filter Efficiency: 79.30			Maximum Filter Efficiency: 94.13		

- 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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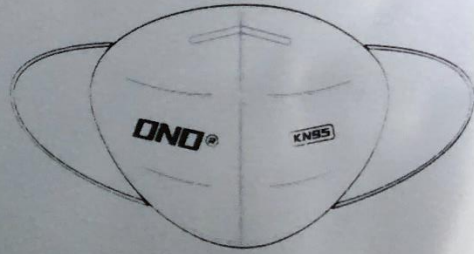
OND
 PROTECTIVE MASKS
 产品名称: 自吸过滤式可更换呼吸器
 产品型号: KN95折叠式防口罩
 规格: 165x100mm
 材质: 41%无纺布 21%熔喷布 38%无纺布
 数量: 2只
 执行标准: GB 2626-2006
 适用范围: 本产品适用于发热门诊、隔离病房、隔离室、实验室、手术室、病房重症监护室等区域
 生产日期: 2020年9月5日
 生产批次: 020502
 有效期: 储存温度-20°-50°C 相对湿度≤80%
 置于干燥的室内于袋下, 有效期3年。
 生产企业: 天津本末医疗器械有限公司
 生产地址: 天津市西青区大港经济区津浦道17号

MTT-2020-202-

OND® / 本末™

WEARING METHOD

1. The rubber band version can be held with both hands to stretch the rubber band and adjust the tightness of the band. Ultrasonic welded ear tape version without stretching.
2. Face the face mask without the nose clip, and hold the ear band in each hand so that the nose clip is above the mask.
3. Put a mask under your chin. Pull the band behind the ear and adjust the band to feel as comfortable as possible.
4. Place the fingers of both hands in the middle of the metal nose clip and press in and move the fingertips along the nose clip to the sides until the clip is fully pressed into the shape of the bridge of the nose. Using only one hand may affect the tightness of the mask.
5. Before entering the work area, the user must check the tightness of the mask to the face.



The finished product color and printing of each batch number, in the case of the same execution standard, the pattern will be slightly different.

PRODUCT DESCRIPTION

- 1^{layer} Non-woven fabrics
- 2^{layer} Melt-blown fabric layer
- 3^{layer} Non-woven or fused-sprayed fabric layer
- 4^{layer} Hot air cotton or spunlace non-woven cotton
- 5^{layer} Non-woven fabrics

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