NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Dongguan Arun Industrial Co., Ltd.
Model Tested: N9
Date Tested: January 20, 2021

These findings pertain to the Dongguan Arun Industrial Co., Ltd., model N9. 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).

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 99.75% and 95.22%, respectively. All thirty respirators measured more 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:** January 20, 2021  
**Report Prepared:** January 20, 2021  
**Manufacturer:** Dongguan Arun Industrial Co., Ltd.  
**Item Tested:** N9  
**Country of Certification:** China (GB2626-2006)

<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>
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<tbody>
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</table>

**Minimum Filter Efficiency:** 97.12%  
**Maximum Filter Efficiency:** 99.18%

- 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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</table>

Minimum Filter Efficiency: 95.22%

Maximum Filter Efficiency: 99.41%

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</tr>
</tbody>
</table>

**Minimum Filter Efficiency:** 96.79%  
**Maximum Filter Efficiency:** 99.75%

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KN95 FACE MASK
GB2626-2006 KN95

The mask is designed according to the shape of the face, protect the face 360°. Adopt electrostatic ultrafilter, prevent dust efficiently. 3D breathable space, breathe comfortably.

RANGE OF APPLICATION:
Suitable for respiratory protection, can filter the dust, haze, droplets and other harmful substances in the air. Single use only and destroyed after use.

WARNING
1. The mask is not damaged or contaminated.
2. If you don't feel well, please leave the pollutional area immediately.
3. If you can't breathe easily, please change the mask.
4. Cleaning or remould is not allowed.
5. People with respiratory diseases should use this mask with caution.

STORAGE REQUIREMENTS
Product Name: KN95 face mask (non medical) Specification: 103x166mm Model: N9
Carried Standard: GB2626-2006 KN95 Raw Materials: Non Woven 70%, Melt Blown 30%
Storage environment: Ventilated, out of the light, dry, away from fire.
Storage temperature: -30°C ~ 40°C.
Storage humidity: RH ≤ 80%.
Storage life: Valid for 1 year.

Manufacturer: DONGGUAN ARUN INDUSTRIAL CO., LTD.
Address: Room 301, No.13, Xin Feng Street, Changlong Village, Huangjiang Town, Dongguan City, Guangdong Province
E-mail: Info@all-round.com.cn

Made in China
FACE MASK

1. Open the mask
2. Nose clip up
3. Press the nose clip after wearing
4. Adjust the mask to obtain a better protective effect

Nose Clip
Regulator clip on nose. Can accept moderate adjustment according to individual face. Can fit well with your face. Perfect barrier to protect from dust and viruses.

Elastic Headband
Rounded headband with moderate elasticity. Suitable for all heads type (except children). Can be worn for a long time.

Product Mix
The product consists of a mask body with nose clip and elastic band. The mask body consists of spunbond, needled filter cotton, PP nonwoven cloth (or melt spray cloth).

Lot No. 20201101
Production Date 2020/11/01
NPPTL COVID-19 Response: International Respirator Assessment

KN95 FACE MASK
GB2626-2006 KN95

合格证 CERTIFICATE

产品名称 PRODUCT NAME
KN95防护型口罩
KN95 FACE MASK

规格 SPECIFICATION
103mmx166mm

型号 MODEL
N9

执行标准 CARRIED STANDARD
GB2626-2006 KN95

主要原料 RAW MATERIALS
无纺布70%、熔喷布30%
Non Woven 70%, Melt Blown 30%

生产日期 PRODUCTION DATE
2020/11/01

生产批号 LOT NO.
20201101

有效期 PERIOD OF VALIDITY
储存温度-30~40℃，湿度80%避
光干燥室内环境下1年。
Storage temperature: -30~40℃, 80% humidity,
dark dry indoor environment valid for 1 year.

生产企业 MANUFACTURER
东莞市依然医疗用品有限公司
DONGGUAN ARUN INDUSTRIAL.CO.,LTD

生产地址 ADDRESS
广东省东莞市黄江镇长龙新风街13号301室
Room 301, No.13, Xinfeng Street, Changlong Village, Huanjiang Town, Dongguan City, Guangdong Province

产品使用范围为：本产品不得用于发热门诊隔离病房（区）
隔离留观病房（区）手术室、隔离重症监护室等区域。
Scope of usage: This product shall not be used in isolation ward (area),
isolation observation ward (area), operating room, isolation ICU and other
areas of fever clinic.

本产品为非医疗器械，仅供应急使用
This product is a non-medical device for emergency use only.

MADE IN CHINA
NPPTL COVID-19 Response: International Respirator Assessment