

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Lanshan Shendun Technology Co., LTD

Model Tested: SD-KN95

Date Tested: August 7, 2020

These findings pertain to the Lanshan Shendun Technology Co., LTD, Model SD-KN95. 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 99.87% and 99.37%, respectively. No 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 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: August 7, 2020

Report Prepared: August 7, 2020

Manufacturer: Lanshan Shendun Technology Co., LTD

Item Tested: SD-KN95

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	17.1	0.36	0.36	99.64
2	85	17.1	0.57	0.57	99.43
3	85	13.7	0.17	0.17	99.83
4	85	15.8	0.13	0.13	99.87
5	85	22.1	0.26	0.26	99.74
6	85	16.7	0.26	0.26	99.74
7	85	13.9	0.63	0.63	99.37
8	85	12.9	0.47	0.47	99.53
9	85	15.6	0.26	0.26	99.74
10	85	19.4	0.19	0.19	99.81
Minimum Filter Efficiency: 99.37%			Maximum Filter Efficiency: 99.87%		

- 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.

MTT-2020-346

Lamdoun®

MASK (KN95 NON-MEDICAL)

KN95 Protection Level

Instructions

1. The user shall receive necessary training before use and wear it in the correct way.
2. This product can only be used in a ventilated place with sufficient oxygen.
3. If the mask is blocked and has difficulty breathing or is damaged, please discard the mask or replace it.
4. If breathing is difficult or unpleasant while wearing a mask, leave the workplace immediately and breathe fresh air.

Important Information

1. It is not recommended to use this product when oxygen content is low, air pollution is serious or when sleeping.
2. Use with caution on patients with asthma and other respiratory diseases.
3. Please use the mask correctly and do not abuse it.
4. The storage temperature is -28°C-38°C, and the relative humidity is lower than 80%.

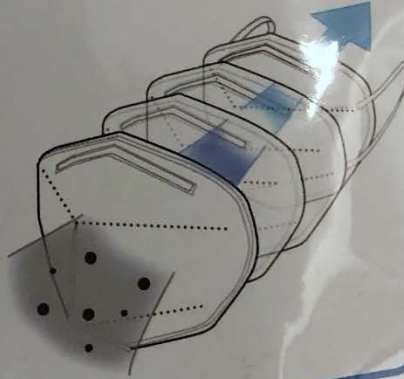
How to wear

1. Open the mask. Hold the ear strips while the nose clip is facing the outside.
2. Position the bottom of the mask under your chin and the nose clip on the bridge of your nose.
3. Pull the ear straps behind the ear.
4. Using both hands, mould metal nose piece comfortably to shape of nose. Pinch the nose piece using one hand may result in less effective respirator performance.



Filtering effect ≥ 95%

- Three-dimensional
- Non-woven fabric
- Bridge bar adjustable
- Fusion-jet filter material



Name: Mask (KN95 Non-Medical)
 Model: SD-KN95
 Category: Disposable, no breathing valve
 Standard: GB2626-2006
 Quantity: 10pcs/bag

Shelf life: 1 years
 Production date: See the seal
 Tel: 0746-2999789
 Manufacturer: LANSHAN SHENDUN
 Technology Co., Ltd
 Address: No.5 leather industrial park,
 Lanshan county, Hunan province





SD-KN95 mask manual (non-sterile type)
Please read the instructions carefully

[Product Name] SD-KN95 (non-sterile type)
 [Model and Applications] Ear-trap mask, takes 10.5cmx15.5cm as specification.
 [Product composition] The product is composed of a mask body made of non-stick nonwoven fabric, and the filter layer.
 [Scope of application] Applicable to the health care and protection of people.
 [Performance structure]
 1. The appearance of the mask should be neat and beautiful.
 2. After wearing the mask, it should cover the face, and the deviation should be no more than 1.5cm, and the length of the ear strap should be no more than 1.5cm.
 3. Nose clips must be provided on the mask. The length of the nose clip should be no less than 8.5cm.
 4. The mask band should be easy to wear and take, and the mask body should be no less than 10N.
 5. The particle filtration efficiency of the mask should be ≥95%.
 [Contraindications] None
 [Precautions] 1. Please choose aseptic or non-sterile products. This product is 72H, and the filtration efficiency will gradually decrease to the requirements of hospitals and environmental protection. 2. Please check whether the packaging is intact before use, if the packaging mark, production date, and validity period before use are damaged, or the mask is contaminated (when contaminated), the mask is damaged, or the mask is contaminated (when contaminated), it should be replaced in time.
 [Instructions] Open the package and take out the mask, check whether the concave side faces inwards, and the side with the nose clip is facing up in the package. First fold the auxiliary strip through the ear strap rope and then insert the silicone adjustment buckle into the ear strap rope. Hang the ear strap to the ear, adjust the silicone adjustment buckle to the appropriate position (the silicone adjustment buckle adjusts the ear strap to within 17.5cm for the best air tightness). Gently press the nose clip to fit the nose bridge, and then press the nose clip to adjust the lower end of the mask to the jaw. Adjust as comfortably as possible, avoid touching the inside of the mask with your hands, place the mask on the face, and adjust it to the appropriate position.
 [Storage conditions] Store it in a dry, ventilated, non-corrosive gas environment, away from fire and flammable materials.
 [Transportation and storage] It should be protected from heavy pressure, direct sunlight and rain and snow.
 [Packaging] 10 pcs/bag. For specific packaging specifications, please refer to product label or outer packaging.
 [Production date] refer to the outer packaging
 [Validity period] 1 year
 [Manufacturer] LANSHAN SHENDUN Technology Co., Ltd
 [Address] No. 1 Leather Industrial Park, Lanshan County, Hunan Province
 [Contact number] 0746-2999789
 [Standard] GB1626-2006

产品名称	SD-KN95	规格	10.5cmx15.5cm
生产批号	20200703	生产日期	2020年07月03日
生产厂家	兰山申顿科技有限公司	地址	湖南省郴州市郴县经济开发区
联系电话	0746-2999789	网址	www.lanshan-shendun.com
执行标准	GB1626-2006	认证	CCC, CE, ISO9001
适用范围	个人防护	适用人群	成人
保质期	1年	包装规格	10只/包
储存条件	干燥、通风、无腐蚀性气体	运输条件	避免重压、阳光直射、雨淋
注意事项	使用前请检查包装是否完好	使用说明	见产品说明书

合格证
CERTIFICATE OF QUALITY

生产日期 2020年07月03日

Lamdown®

MASK (KN95 NON-MEDICAL)

KN95 Protection Level

Instructions

1. The user shall receive necessary training before use and wear it in the correct way.
2. This product can only be used in a ventilated place with sufficient oxygen.
3. If the mask is blocked and has difficulty breathing or is damaged, please discard the mask or replace it.
4. If breathing is difficult or unpleasant while wearing a mask, leave the workplace immediately and breathe fresh air.

Important Information

1. It is not recommended to use this product when oxygen content is low, air pollution is serious or when sleeping.
2. Use with caution on patients with asthma and other respiratory diseases.
3. Please use the mask correctly and do not abuse it.
4. The storage temperature is -28°C-38°C, and the relative humidity is lower than 80%.

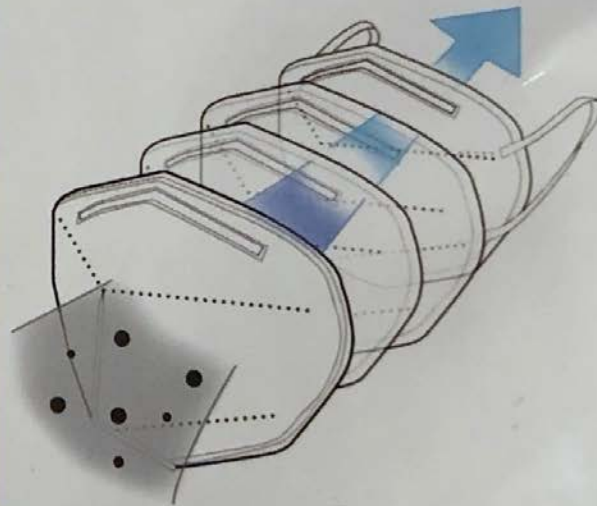
How to wear

1. Open the mask. Hold the ear strips while the nose clip is facing the outside.
2. Position the bottom of the mask under your chin and the nose clip against bridge of your nose.
3. Pull the ear straps behind the ear.
4. Using both hands, mould metal nose piece comfortably to shape of nose. Pinch the nose piece using one hand may result in less effective respirator performance.



Filtering effect $\geq 95\%$

- Three-dimensional
- Non-woven fabric
- Bridge bar adjustable
- Fusion-jet filter material



Name: Mask (Kn95 Non-medical)
Model: SD-KN95
Category: Disposable, no breathing valve
Standard: GB2626-2006
Quantity: 10pcs/bag

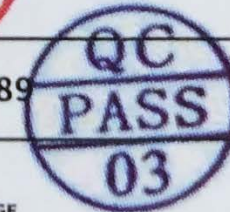
Shelf life: 1 years
Production date: See the seal
Tel:0746-2999789
Manufacturer: LANSAN SHENDUN
Technology Co., Ltd
Address: No.5 leather industrial park,
Lanshan county, Hunan province



合格证

CERTIFICATE OF QUALITY

产品名称 PRODUCT NAME	口罩 (KN95非医用) MASK (KN95 NON-MEDICAL)
产品型号 PRODUCT MODEL	SD-KN95
产品规格 PRODUCT SPECIFICATION	10.5CM*15.5CM
材质 TEXTURE OF MATERIAL	熔喷布28% 无纺布72% 28%MELT BLOWN CLOTH 72%NON-WOVEN
执行标准 STANDARD	GB2626-2006
制造商 MANUFACTURER	蓝山县神盾科技有限公司 LANSHAN SHENDUN TECHNOLOGY CO., LTD
地址 ADDRESS	湖南省蓝山县湘江源皮具产业园5号 NO.5 LEATHER INDUSTRIAL PARK, LANSHAN COUNTY, HUNAN PROVINCE
数量 QUANTITY	10个/包 10PCS/BAG
保质期 SHELF LIFE	12个月 12 MONTHS
联系电话 TEL	0746-2999789
生产批号 PRODUCTION BATCH NUMBER	见外包装 PRINTED ON PACKAGE
生产日期 THE DATE OF PRODUCTION	见外包装 PRINTED ON PACKAGE



SD-KN95 mask manual (non-sterile type)

Please read the instructions carefully

[Product Name] SD-KN95 (non-sterile type)

[Model and specifications] Ear-trap mask, takes 10.5cmx15.5cm as specification

[Product composition] The product is composed of a mask body, a nose bridge clip, and a mask band. The outer and inner layers are made of non-stick nonwoven fabric, and the filter layer is made of polypropylene melt-blown fabric. Non-sterile product supply.

[Scope of application] Applicable to the health care of the wearer in the general environment without the risk of body fluids and splashing.

[Performance structure]

1. The appearance of the mask should be neat and intact, and there should be no holes or stains on the surface.
2. After wearing the mask, it should cover the mouth, nose and jaw of the wearer. The mask should meet the design size. The maximum deviation should be no more than and less than 5%.
3. Nose clips must be provided on the mask. The nose clips can be made of bendable plastic material and the length should be no less than 8.5cm.
4. The mask band should be easy to wear and take, and the breaking strength at the connection point between each mask band and the mask body should be no less than 10N.
5. The particle filtration efficiency of the mask should be no less than 95%.

[Contraindications] None

[Precautions] 1. Please choose aseptic or non-sterile products according to the needs of your own use. 2. The longest use time of this product is 72H, and the filtration efficiency will gradually decrease with time going by. After use, it should be processed according to the requirements of hospitals and environmental protection departments.

3. Please check whether the packaging is intact before use, if the packaging or mask is damaged, do not use. Confirm the external packaging mark, production date, and validity period before using it, and use it within the validity period. 4. Use with caution if you are allergic to non-woven fabrics. 5. If there is a significant increase in respiratory resistance during use (when breathing is difficult), the mask is damaged, or the mask is contaminated (when contaminated with foreign substances such as blood stains and droplets), it should be replaced in time.

[Instructions] Open the package and take out the mask, check whether the mask is intact. The convex side faces outwards, the concave side faces inwards, and the side with the nose clip is facing upwards. There is a silicone adjustment buckle and auxiliary strip in the package. First fold the auxiliary strip through the ear strap rope and then insert the silicone adjustment buckle into the ear strap rope. Hang the ear strap to the ear, adjust the silicone adjustment buckle to the appropriate position (the silicone adjustment buckle adjusts the ear strap to within 17.5cm for the best air tightness). Gently press the nose clip to fit the nose bridge, and then press the nose clip to adjust the lower end of the mask to the jaw. Adjust as comfortably as possible, avoid touching the inside of the mask with your hands, place the mask on the face, and adjust it to the appropriate position.

[Storage conditions] Store it in a dry, ventilated, non-corrosive gas environment, away from fire and flammable materials.

[Transportation and storage] It should be protected from heavy pressure, direct sunlight and rain and snow.

[Packaging] 10 pcs/bag. For specific packaging specifications, please refer to product label or outer packaging.

[Production date] refer to the outer packaging

[Product validity period] 1 year

[Manufacturer] LANSHAN SHENDUN Technology Co., Ltd

[Address] No.5 leather industrial park, Lanshan county, Hunan province

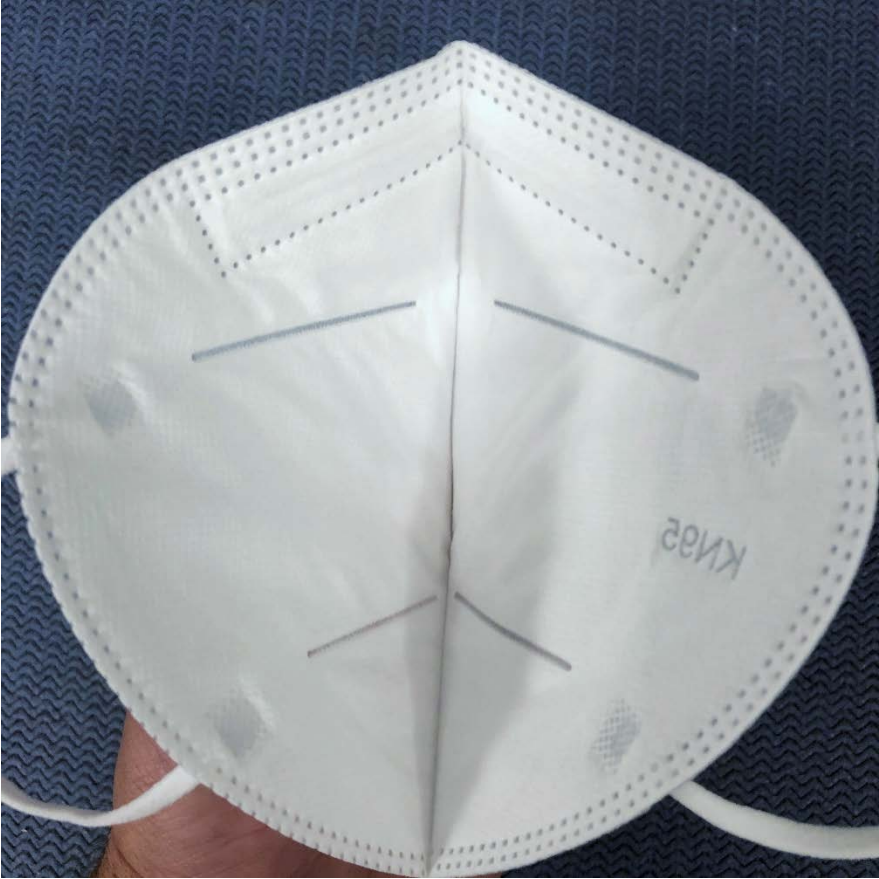
[Contact number] 0746-2999789

[Executive Standard] GB2626-2006

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