

Technical Datasheet of Personal Protective Equipment product

Filtering Facepiece Respirator against particles (NON-MEDICAL Device)

Item : Filtering Facepiece Respirator
Model : KN95
Item No : 10022



Attention: This Model KN95 is in European

Union allowed to use for Health Care

Workers during Covid-19 pandemic!

This Product KN95 was strictly audited by

Chinese customs of Province Zhejiang under

Report Number YJ202005168 and allowed to export.

Producer's Contact Information:

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Please read this data sheet and information carefully!

1. Product Features

This disposable half-mask filtering facepiece respirator is self-priming and protecting from **particulate matter with high filtration efficiency of $\geq 95\%$** , intend to cover user's airway nose and mouth to reduce exposure to pathogenic biological airborne particulates according to **Chinese standard GB2626-2006 KN95. This Model KN95 is in European Union allowed to use for Health Care Workers during Covid-19 pandemic!**

Health protection level : This product is filtering particles such as those resulting from bioaerosols (**e.g. Virus & Bacteria**), dust & PM2.5 air pollution, airborne particles of volcanic eruption, wildfire or harmful particles like pollen, cement, soot, asbestos and mould.

Applications: Pandemic prevention, Pest control, Health Care workers & service, health care setting, like hospital service or care homes, paramedics, or Daily life e.g. in Supermarket, in Bus, Train or Subway, airplane, Anti-Pollution, and reducing particles exposure at work, normal work areas, like Wood-processing, garden work & agricultural work, grinding, work-pest control, simple Construction/deconstruction work. **READ CAREFULLY NOTES FOR USAGE IN CHAPTER 2.**

Approved Standards: This respirator is certified according Chinese KN95 Standard GB2626-2006KN95.

Additional Information: Disposable Filtering facepiece respirators (FFR), which are also called disposable respirators, are subject to various regulatory standards around the world (see examples below). Certain required physical properties and performance characteristics are specified in order for respirators to claim compliance with the particular standard. FFP2/KN95/N95 respirators are commonly recommended by health authorities, like WHO, during pandemic or emergency situations. They are nearly the same, but respirators certified as meeting these standards can be expected to function very similar to on another, see here the standards: FFP2 (Europe EN 149-2001) EU Directive 2016/425 Cat. III

KN95 (China GB2626-2006)

N95 (United States NIOSH-42CFR84)

The Company 3M released a Technical Bulletin on January 2020, see figure 1. below, regarding Comparison of FFP2, KN95, and N95 and Other Filtering Facepiece Respirator Classes. Based on this comparison, it is reasonable to consider China KN95, as “equivalent” to US NIOSH N95 and European FFP2 respirators, for filtering non-oil-based particles such as those resulting from wildfires, PM 2.5 air pollution, volcanic eruptions, or bioaerosols (e.g. Viruses & Bacteria) or harmful particles like pollen, cement, heavy metal, soot, asbestos and mould.

Certification/ Class (Standard)	N95 (NIOSH-42C FR84)	FFP2 (EN 149-2001)	KN95 (GB2626-20 06)	P2 (AS/NZ 1716:2012)	Korea 1 st Class (KMOEL - 2017-64)	DS (Japan JMWLW- Notification 214, 2018)
Filter performance – (must be ≥ X% efficient)	≥ 95%	≥ 94%	≥ 95%	≥ 94%	≥ 94%	≥ 95%
Test agent	NaCl	NaCl and paraffin oil	NaCl	NaCl	NaCl and paraffin oil	NaCl
Flow rate	85 L/min	95 L/min	85 L/min	95 L/min	95 L/min	85 L/min
Total inward leakage (TIL)* – tested on human subjects each performing exercises	N/A	≤ 8% leakage (arithmetic mean)	≤ 8% leakage (arithmetic mean)	≤ 8% leakage (individual and arithmetic mean)	≤ 8% leakage (arithmetic mean)	Inward Leakage measured and included in User Instructions
Inhalation resistance – max pressure drop	≤ 343 Pa	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min) ≤ 500 Pa (clogging)	≤ 350 Pa	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min)	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min)	≤ 70 Pa (w/valve) ≤ 50 Pa (no valve)
Flow rate	85 L/min	Varied – see above	85 L/min	Varied – see above	Varied – see above	40 L/min
Exhalation resistance - max pressure drop	≤ 245 Pa	≤ 300 Pa	≤ 250 Pa	≤ 120 Pa	≤ 300 Pa	≤ 70 Pa (w/valve) ≤ 50 Pa (no valve)
Flow rate	85 L/min	160 L/min	85 L/min	85 L/min	160 L/min	40 L/min
Exhalation valve leakage requirement	Leak rate ≤ 30 mL/min	N/A	Depressuriza- tion to 0 Pa ≤ 20 sec	Leak rate ≤ 30 mL/min	visual inspection after 300 L/min for 30 sec	Depressuriza- tion to 0 Pa ≤ 15 sec
Force applied	-245 Pa	N/A	-1180 Pa	-250 Pa	N/A	-1,470 Pa
CO ₂ clearance requirement	N/A	≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%

*Japan JMWLW-Notification 214 requires an Inward Leakage test rather than a TIL test.

Figure 1.

2. Product Data & Specifications

Product Name : Filtering Facepiece Respirator
 Model : KN95
 Item-No.: 10022
 Certified Standards: KN95 (Chinese standard GB2626-2006)
 Audited by Zhejiang Light Industrial Products Inspection and Research
 Institute ,Province Zhejiang P.R. China & National Textiles and Garment
 Quality Supervision Inspection Center(Zhejiang)
Report Number YJ202005168

Protection class PPE ,Personal Protective Equipment, KN95

Materials

Protection Layers : 4 Layers SMSS Polypropylene

Layer Materials : 1x Outside strong PP Non-Woven layer
 1x Inside strong PP Meltblown NANO-TECH membrane filter layer
 1x Inside PP Spunbonded soft layer electrostatic adsorption layer
 1x Inside fine skin friendly PP fabric Non-Woven layer
 *PP=Polypropylene , see details chapter 3.

Nose fixing : Aluminium soft bar

Ear loops : Soft elastic Polypropylene , Latex free

Filtering function

Filtering Type: This respirator protects against bioaerosols like Virus & Bacteria, Dust and Pollution, Airborn particles

Filter Performance: Protecting from particulate matter $\geq 0.3 \mu\text{m}$ with filtration efficiency of $\geq 95\%$,by Inhalation resistance $\leq 350 \text{ Pa}$, Exhalation Resistance $\leq 250 \text{ Pa}$

Inward leakage : Max. 8%

Basic

Disposable : Yes, do not reuse it
 Non-sterile

Color: White

Size: Universal

Exhalation Valve: NO

Strap Attachment : Stapled

Adjustable Nosie Clips: Yes

Usage time : Do not use respirator longer than one workshift

Storage : Temperature -30°C to 40°C
 Relative humidity max. : 85%

Shelf live : 2 years

Production date : mark on product label

Product weight : 6 Grams

Product transportation: Only in sealed original package

Product Features:

Light and breathable
Hypoallergenic material
Snug & Comfortable fit
V-Notch Design
Easy Nose fixing
Latex free ear loops



Product Picture, Model: KN95

Notes for Usage:

1. Check the right fitting and tightness of the respirator on the face before entering the work area. If feel leakage, leave the area, replace the respirator.
2. Do not use the respirator longer than one workshift.
3. Do not reuse the respirator after usage, do not use the respirator when the respirator is damaged, do not use the respirator when you feel the respiratory resistance increased significantly then leave this contaminated area immediately and replace the respirator.
4. Do not use the respirator when there is hair on your face or other conditions that may affect the tight fit of respirator.
5. Wearing a protective respirator can cause respiratory resistance and may not apply to people have already some cardiopulmonary disease.
6. When the user is obviously experiencing a dyspnea, respirator must be replaced immediately.
7. In poor air quality like hypoxia etc., it is not recommend to use this respirator.
8. This protective equipment is not used for protection against harmful gas, oil mist, anoxic environment, you have to leave such areas.
9. The respirator can not be used if the ambient temperature exceeds 50 °C and the ambient oxygen content is less than 19.5%.
10. Do not use the respirator in workplaces with existing fire, like welding and casting workshops. **This respirator not suitable for industrial usage and strong polluted working areas WITH POLLUTION MORE THAN 10-times over Threshold! Do not use this respirator in operating (surgery) rooms, isolation wards, intensive care units ICU ,fever clinic and where are confirmed virus patients**



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3. Dimension and SMSS layer specification:

Item-No 10022 , Filtering Facepiece Respirator ,KN95



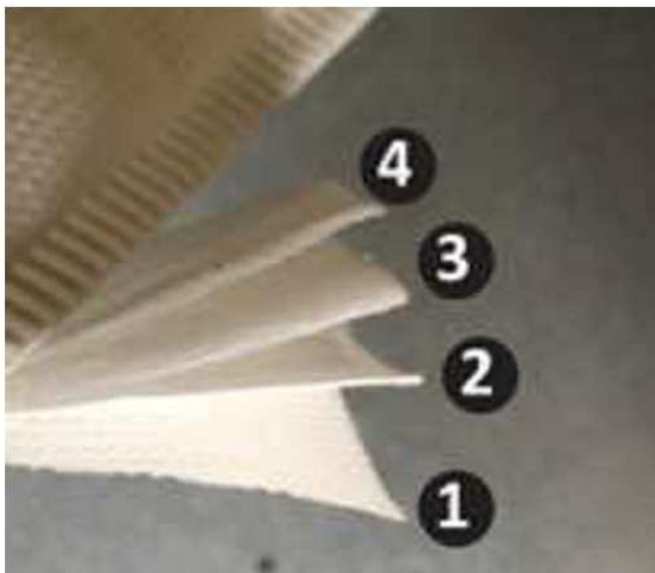
Picture 1. Of 4.



Picture 2. of 4.



Picture 3. of 4.



4-layers strong protection

1: Outside strong PP Non-Woven layer filtering big particle

2: Inside strong PP Meltblown fine particle filter layer NANO-TECH membrane

3: Inside PP Spunbonded electrostatic adsorption layer

4: Inside fine skin friendly PP fabric Non-Woven layer

*PP=Polypropylene

Picture 4. Of 4. Material of 4 Layers

Filtering Facepiece Respirator KN95

NOTICE

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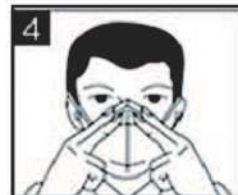
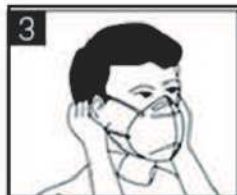
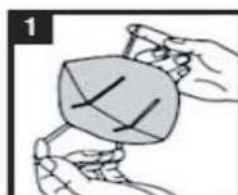
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9. The respirator can not be used if the ambient temperature exceeds 50 °C and the ambient oxygen content is less than 19.5%.



Do not use the respirator in workplaces with existing fire, like welding and casting workshops and heavy polluted areas with 10-time over threshold!
Do not use this respirator in operating (surgery) rooms, isolation wards, intensive care units ICU, fever clinic and where are confirmed virus patients.

Fitting Instruction



Product Quality

High efficiency 4 protection layers SMSS

Top Protection

- 1x Outside strong Non-Woven layer
- 1x Inside Meltblown NANO-TECH membrane filter layer
- 1x Inside Spunbonded soft layer electrostatic adsorption layer
- 1x Inside skin friendly Non-Woven layer

Light and breathable

Hypoallergenic material

Snug & Comfortable fit

V-Notch Design

Easy Nose fixing

Latex free loops

Product
detailed
Information



SCAN ME

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Item: Filtering Facepiece Respirator
Model: KN95
Item No: 10022

PPE Product

KN 95

GB2626-2006 KN95
Chinese Standard



Disposable Product - DO NOT REUSE
Usage only for one workshift

Storage: Temperature -30 °C to 40 °C
Relative humidity max. : 85%

Factory: Zhejiang Zhuoyou Protective Articles Co., Ltd
107 Yugui Road, Yongkang City, P.R.China

E-Mail: support@zhuoyou-pa.com
www.zhuoyou-pa.com

Made in China

Unit
1Pc

NON-MEDICAL



Lot : 2020-04M

MFD: 2020-04

EXP : 2022-04

Accepted Standard
in Germany during
Covid-19 pandemic