

TECHNICAL DATA SHEET



Description

KN95 – GB2626-2006

5 layers of protection

Filtration of 95% against non-oily particles

Flow rate - 85 L/min

Total Inward Leakage \leq 8% leakage

Inhalation resistance \leq 350 Pa

Exhalation resistance \leq 250 Pa

Manufactured in China

Directions

- *Clean your hands with soap and water or hand sanitizer before touching the mask.*
- *Place respirator against your face, with the bottom under chin and metal nosepiece across bridge of nose.*
- *Place each ear loop around your ears.*
- *Use both hands to bend the metal nosepiece to fit snugly against your nose and face. The respirator may not fit as well if you pinch the metal nosepiece using one hand. Use two hands. Slide fingers down both sides of metal nosepiece to seal it against your nose and face*

Packaging

Shipping carton of 1500 masks.

Box Dimensions/Weight

68x40x65cm/ approximately 11kg per carton

Regulatory Information

GB2626-2006 Standard (China)

EN 149:2001 + A1:2009 Standard (European Union)

Storage Information

Respirators should be stored indoors, in their original packaging, in a structured storage space away from direct sunlight where they can't become crushed or distorted.

Shelf Life

2 years

Caution

Respirators are designed to help reduce the wearer's exposure to airborne particles. Respirators must be properly selected and carefully donned (put on) and doffed (taken off) in a clean area, and worn the entire time in the contaminated area to have a significant effect on reducing exposure. Having the respirator off even 10% of the time in a contaminated area significantly reduces the protective effect of the respirator.

The dimensions and properties listed above can vary within pre-established specifications. This document was created using the most recent information. In the interest of continuous improvement, the characteristics of the product may change without prior notice.

Images

Respirator Mask
KN95



KN95
Respirator Mask



5 Layers
Strengthened Filtration

- For TB Exposure Control
- Vertical Folder for Easy Storage
- Contoured & Comfortable Fit
- Viral Infection Protective Barrier

50PCS

INSTRUCTIONS:



1. Clean your hands with soap and water or hand sanitizer before touching the mask.
2. Place respirator against your face, with the bottom under chin and metal nosepiece across bridge of nose.
3. Place each ear loop around your ears.
4. Use both hands to bend the metal nosepiece to fit snugly against your nose and face.
5. The respirator may not fit as well if you pinch the metal nosepiece using one hand.
Use two hands, slide fingers down both sides of metal nosepiece to seal it against your nose and face



KN95
Respirator Mask



5 Layers
Strengthened Filtration

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- Viral Infection Protective Barrier

50PCS

NOTE:

Change respirator immediately if breathing becomes difficult or respirator becomes damaged or distorted. Careful observance of these instructions is an important step in safe respirator use.

WARNING:

O-BRUSH makes no representations or warranties, express or imply that its products can provide complete protection from fluids passing from one side of the material to the other, nor will the company guarantee the risk of exposure to contaminants or the possibility of contracting any diseases.

NO MASK CAN COMPLETELY ELIMINATE THE RISK OF FLUID CONTAMINATION AND EXPOSURE.

info@o-brush.com
www.o-brush.com

Authorized Manufacturer:
Dongguan Dacheng Electronic Technology Co., Ltd
Address: No.11, Keyuan 1st Road, Tangxia Town,
Dongguan City, Guangdong, China
Tel: +86 139 0294 0884
Model #: DC-KN95

Standard: GB2626-2006
For lot no. & expiry date,
please ref to inner packaging

Item: FM-KN95W50



6 31384 99329 1
Made in China

Certificate of Compliance



No. 4Q200401G.DDE0D64

Certificate's
Holder:

Dongguan Dacheng Electronic
Technology Co., Ltd
No.11 Keyuan 1st Road, Tangxia Town, Dongguan
City

Certification ECM
Mark:



Product:
Model(s):

KN95 Mask
DC-KN95

Verification to:

Standard:
EN 149:2001+A1:2009
related to CE Directive(s):
R 2016/425 (Personal Protective Equipment)

Remark: This document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the products accordingly to the ECM regulation about its release and its use.

Additional information and clarification about the Marking:



The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary Mark for the certification of products. RG01_ECM rev.3 available at: www.entecerma.it

Issuance date: 01 April 2020

Expiry date: 31 March 2025

Reviewer
Technical expert
Amanda Payne



Approver
ECM Service Director
Luca Bedonni



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DCTCF0331-PPE

PPE TEST REPORT

For

Dongguan Dacheng Electronic Technology Co., Ltd

KN95 Mask

Model: DC-KN95

Prepared For : Dongguan Dacheng Electronic Technology Co., Ltd
No.11 Keyuan 1st Road, Tangxia Town, Dongguan City

Prepared By : China Ceprei (Sichuan) Laboratory
No.45 Wenming Dong Road Longquanyi District, Chengdu,
Sichuan

Report Number: DCTCF0331-PPE

Date of Test: Mar.31, 2020

Date of Report: Mar.31, 2020





DCTCF0331-PPE

TEST REPORT DECLARATION

Applicant : Dongguan Dacheng Electronic Technology Co., Ltd
Address : No.11 Keyuan 1st Road, Tangxia Town, Dongguan City
Manufacturer : Dongguan Dacheng Electronic Technology Co., Ltd
Address : No.11 Keyuan 1st Road, Tangxia Town, Dongguan City
EUT Description : KN95 Mask
Model No. : DC-KN95
Remark : N/A

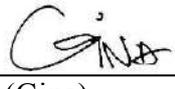
Test Procedure Used:
EN 149:2001+A1:2009

The results of this test report are only valid for the mentioned equipment under test. The test report with all its sub-reports, e.g. tables, photographs and drawings, is copyrighted. Unauthorized utilization, especially without permission of the test laboratory, is not allowed and punishable. For copying parts of the test report, a written permission by the test laboratory is needed.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : Mar.31, 2020

Prepared by : 
(Jack)

Checked by : 
(Gina)

Approved by : 
(Johnson)



Property	Method	Principle / Requirements	Result
Classification	EN 149:2001+ A1:2009 Clause 5	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices: FFP1, FFP2 and FFP3.	Pass. FFP2.
Designation	EN 149:2001+ A1:2009 Clause 6	Particle filtering half masks meeting the requirements of this European Standard shall be designated in the following manner: Particle filtering half mask EN 149, year of publication, classification, option (where "D" is an option for a non re-useable particle filtering half mask and mandatory for re-useable particle filtering half mask).	Pass.
Nominal values and tolerances	EN 149:2001+ A1:2009 Clause 7.2	Unless otherwise specified, the values stated in this European Standard are expressed as nominal values. Except for temperature limits, values which are not stated as maxima or minima shall be subject to a tolerance of $\pm 5\%$. Unless otherwise specified, the ambient temperature for testing shall be (16 - 32) °C, and the temperature limits shall be subject to an accuracy of ± 1 °C.	Pass. +5°C to +38°C.
Visual inspection	EN 149:2001+ A1:2009 Clause 7.3	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Pass
Packaging	EN 149:2001+ A1:2009 Clause 7.4& Clause 8.2	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use. The visual inspection is carried out where appropriate by the test house prior to laboratory or practical performance tests.	Pass
Material	EN 149:2001+ A1:2009 Clause 7.5& Clause 8.3	A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke. The particle filtering half mask is mounted on a Sheffield dummy head. For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 °C to allow for the cooling of the air before it reaches the mouth of the dummy head. The air shall be saturated at (37 \pm 2) °C at the mouth of the dummy head. In order to prevent excess water spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be inclined so that the water runs away from the mouth and is collected in a trap.	Pass. Melt blown filter

Property	Method	Principle / Requirements	Result
		<p>Expose the particle filtering half masks to the following thermal cycle:</p> <p>a) for 24 h to a dry atmosphere of $(70 \pm 3) ^\circ\text{C}$;</p> <p>b) for 24 h to a temperature of $(-30 \pm 3) ^\circ\text{C}$;</p> <p>and allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.</p> <p>The conditioning shall be carried out in a manner which ensures that no thermal shock occurs.</p>	
<p>Cleaning and disinfecting</p>	<p>EN 149:2001+ A1:2009 Clause 7.6& Clause 8.4& Clause 8.5</p>	<p>If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.</p> <p>Testing shall be done in accordance with 8.4 and 8.5.</p> <p>With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.</p> <p>Testing shall be done in accordance with 8.11.</p>	<p>Pass</p>
<p>Practical performance</p>	<p>EN 149:2001+ A1:2009 Clause 7.7& Clause 8.4</p>	<p>Walking test</p> <p>The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle filtering half mask, for a period of 10 min.</p> <p>Work simulation test</p> <p>The individual activities shall be arranged so that sufficient time is left for the comments prescribed.</p> <p>a) walking on the level with headroom of $(1,3 \pm 0,2) \text{ m}$ for 5 min;</p> <p>b) crawling on the level with headroom of $(0,70 \pm 0,05) \text{ m}$ for 5 min;</p> <p>c) filling a small basket (see Figure 1, approximate volume = 8 l) with chippings or other suitable material from a hopper which stands 1,5 m high and has an opening at the bottom to allow the contents to be shovelled out and a further opening at the top where the basket full of chippings is returned.</p> <p>The subject shall stoop or kneel as he wishes and fill the basket with chippings. He shall then lift the basket and empty the contents back into the hopper. This shall be done 20 times in 10 min.</p>	<p>Pass.</p> <p>The particle filtering half mask could undergo practical performance tests under realistic conditions.</p>

Property	Method	Principle / Requirements	Result																	
Finish of parts	EN 149:2001+ A1:2009 Clause 7.8& Clause 8.2	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs. Testing shall be done in accordance with 8.2.	Pass. No sharp edges and burrs.																	
Total inward leakage	EN 149:2001+ A1:2009 Clause 7.9.1& Clause 8.5	<p>1)walking for 2 min without head movement or talking; 2) turning head from side to side (approx. 15 times), as if inspecting the walls of a tunnel for 2 min; 3) moving the head up and down (approx. 15 times), as if inspecting the roof and floor for 2 min; 4) reciting the alphabet or an agreed text out loud as if communicating with a colleague for 2 min; 5)walking for 2 min without head movement or talking.</p> <p>The leakage P shall be calculated from measurements made over the last 100 s of each of the exercise periods to avoid carry over of results from one exercise to the other.</p> $P(\%) = \frac{C_2}{C_1} \times \left(\frac{t_{IN} + t_{EX}}{t_{IN}} \right) \times 100$ <p>where C₁ is the challenge concentration C₂ is the measured mean concentration in the breathing zone of the test subject t_{IN} is the total duration of inhalation t_{EX} is the total duration of exhalation</p>	Pass. Total inward leakage is 8%.																	
Penetration of filter material	EN 149:2001+ A1:2009 Clause 7.9.2	<p>The device shall be mounted in a leaktight manner on a suitable adaptor and subjected to the test(s), ensuring that components of the device that could affect filter penetration values such as valves and harness attachment points are exposed to the challenge aerosol. Testing of penetration, exposure and storage shall be done in accordance with EN 13274-7. The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.</p> <p style="text-align: center;">Table 1 — Penetration of filter material</p> <table border="1" data-bbox="614 1809 1189 1921"> <thead> <tr> <th rowspan="2">Classification</th> <th colspan="2">Maximum penetration of test aerosol (%)</th> </tr> <tr> <th>Sodium chloride test 95 l/min</th> <th>Paraffin oil test 95 l/min</th> </tr> <tr> <td></td> <td>% max.</td> <td>% max.</td> </tr> </thead> <tbody> <tr> <td>FFP1</td> <td>20</td> <td>20</td> </tr> <tr> <td>FFP2</td> <td>6</td> <td>6</td> </tr> <tr> <td>FFP3</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Classification	Maximum penetration of test aerosol (%)		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min		% max.	% max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Pass The penetration of paraffin oil test is 4%. The penetration of sodium chloride test is 3.3%.
Classification	Maximum penetration of test aerosol (%)																			
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Compatibility with skin	EN 149:2001+ A1:2009 Clause 7.10r	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	Pass. Inner and out layer: Nonwoven pet fabric																	

Property	Method	Principle / Requirements	Result
Flammability	EN 149:2001+A1:2009 Clause 7.11& Clause 8.6	<p>The facepiece is put on a metallic dummy head which is motorized such that it describes a horizontal circle with a linear speed, measured at the tip of the nose, of (60 ± 5) mm/s.</p> <p>The head is arranged to pass over a propane burner the position of which can be adjusted. By means of a suitable gauge, the distance between the top of the burner, and the lowest part of the facepiece (when positioned directly over the burner) shall be set to (20 ± 2) mm.</p> <p>With the head turned away from the area adjacent to the burner, the propane gas is turned on, the pressure adjusted to between 0,2 bar and 0,3 bar and the gas ignited. By means of a needle valve and fine adjustments to the supply pressure, the flame height shall be set to (40 ± 4) mm. This is measured with a suitable gauge. The temperature of the flame measured at a height of (20 ± 2) mm above the burner tip by means of a 1,5 mm diameter mineral insulated thermocouple probe, shall be (800 ± 50) °C.</p> <p>The head is set in motion and the effect of passing the facepiece once through the flame shall be noted.</p> <p>The test shall be repeated to enable an assessment to be made of all materials on the exterior of the device. Any one component shall be passed through the flame once only.</p>	<p>Pass.</p> <p>The particle filtering half mask does not to continue to burn for more than 5 s after removal from the flame.</p>
Carbon dioxide content of the inhalation air	EN 149:2001+A1:2009 Clause 7.12& Clause 8.7	<p>For this test the particle filtering half mask shall be fitted securely in a leak-tight manner but without deformation to a Sheffield dummy head (see Figure 6).</p> <p>Air shall be supplied to it from a breathing machine adjusted to 25 cycles/min and 2,0 l/stroke and the exhaled air shall have a carbon dioxide content of 5 % by volume.</p> <p>The CO₂ is fed into the breathing machine via a control valve, a flowmeter, a compensating bag and two non-return valves. Immediately before the solenoid valve a small quantity of exhaled air is preferably continuously withdrawn through a sampling line and then fed into the exhaled air via a CO₂ analyser.</p> <p>To measure the CO₂ content of the inhaled air, 5 % of the stroke volume of the inhalation</p>	<p>Pass.</p> <p>The carbon dioxide content of the inhalation air (dead space) does not exceed an average of 1,0 %</p>

Property	Method	Principle / Requirements	Result
		<p>phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO₂ analyser. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000 ml.</p> <p>Measure the carbon dioxide content of the inhaled air and record continuously.</p>	
Head harness	EN 149:2001+ A1:2009 Clause 7.13	<p>The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.</p> <p>The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.</p>	Pass
Field of vision	EN 149:2001+ A1:2009 Clause 7.14	The field of vision is acceptable if determined so in practical performance tests.	Not applicable
Exhalation valve(s)	EN 149:2001+ A1:2009 Clause 7.15	<p>A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.</p> <p>Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.</p> <p>When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.</p>	Pass.
Breathing resistance	EN 149:2001+ A1:2009 Clause 7.16& Clause 8.9	<p>Seal the particle filtering half mask on the Sheffield dummy head. Measure the exhalation resistance at the opening for mouth of the dummy head using the adapter shown in Figure 6 and a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke or a continuous flow 160 l/min. Use a suitable pressure transducer.</p> <p>Measure the exhalation resistance with the dummy head successively placed in 5 defined positions:</p> <ul style="list-style-type: none"> - facing directly ahead - facing vertically upwards - facing vertically downwards - lying on the left side - lying on the right side <p>Test the inhalation resistance at 30 l/min and 95 l/min continuous flow.</p> <p>The breathing resistances apply to valved and</p>	<p>Pass.</p> <p>Inhalation resistance at 30 l/min:<0.7mbar.</p> <p>Inhalation resistance at 95 l/min:<2.4mbar.</p> <p>Exhalation resistance at 160 l/min: <3.0mbar.</p>

Property	Method	Principle / Requirements	Result																						
		<p>valveless particle filtering half masks and shall meet the requirements of Table 2.</p> <p style="text-align: center;">Table 2 — Breathing resistance</p> <table border="1" data-bbox="616 331 1190 501"> <thead> <tr> <th rowspan="3">Classification</th> <th colspan="3">Maximum permitted resistance (mbar)</th> </tr> <tr> <th colspan="2">inhalation</th> <th>exhalation</th> </tr> <tr> <th>30 l/min</th> <th>95 l/min</th> <th>160 l/min</th> </tr> </thead> <tbody> <tr> <td>FFP1</td> <td>0,6</td> <td>2,1</td> <td>3,0</td> </tr> <tr> <td>FFP2</td> <td>0,7</td> <td>2,4</td> <td>3,0</td> </tr> <tr> <td>FFP3</td> <td>1,0</td> <td>3,0</td> <td>3,0</td> </tr> </tbody> </table>	Classification	Maximum permitted resistance (mbar)			inhalation		exhalation	30 l/min	95 l/min	160 l/min	FFP1	0,6	2,1	3,0	FFP2	0,7	2,4	3,0	FFP3	1,0	3,0	3,0	
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FFP3	1,0	3,0	3,0																						
<p>Clogging</p>	<p>EN 149:2001+ A1:2009 Clause 7.17& Clause 8.10</p>	<p>Convey dust from the distributor to the dust chamber where it is dispersed into the air stream of 60 m /h.</p> <p>Fit the sample particle filtering half mask in a leaktight manner to a dummy head or a suitable filter holder located in the dust chamber. Connect the breathing machine and humidifier to the sample and operate for the specified testing time.</p> <p>The concentration of dust in the test chamber may be measured by drawing air at 2 l/min through a sampling probe equipped with a pre-weighed, high efficiency filter (open face, diameter 37 mm) located near the test sample, as shown in Figure 10.</p> <p>Calculate the dust concentration from the weight of dust collected, the flow rate through the filter and the time of collection.</p>	<p>Not applicable</p>																						
<p>Demountable parts</p>	<p>EN 149:2001+ A1:2009 Clause 7.18</p>	<p>All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.</p>	<p>Not applicable</p>																						

A.1 Photos



Fig. 1

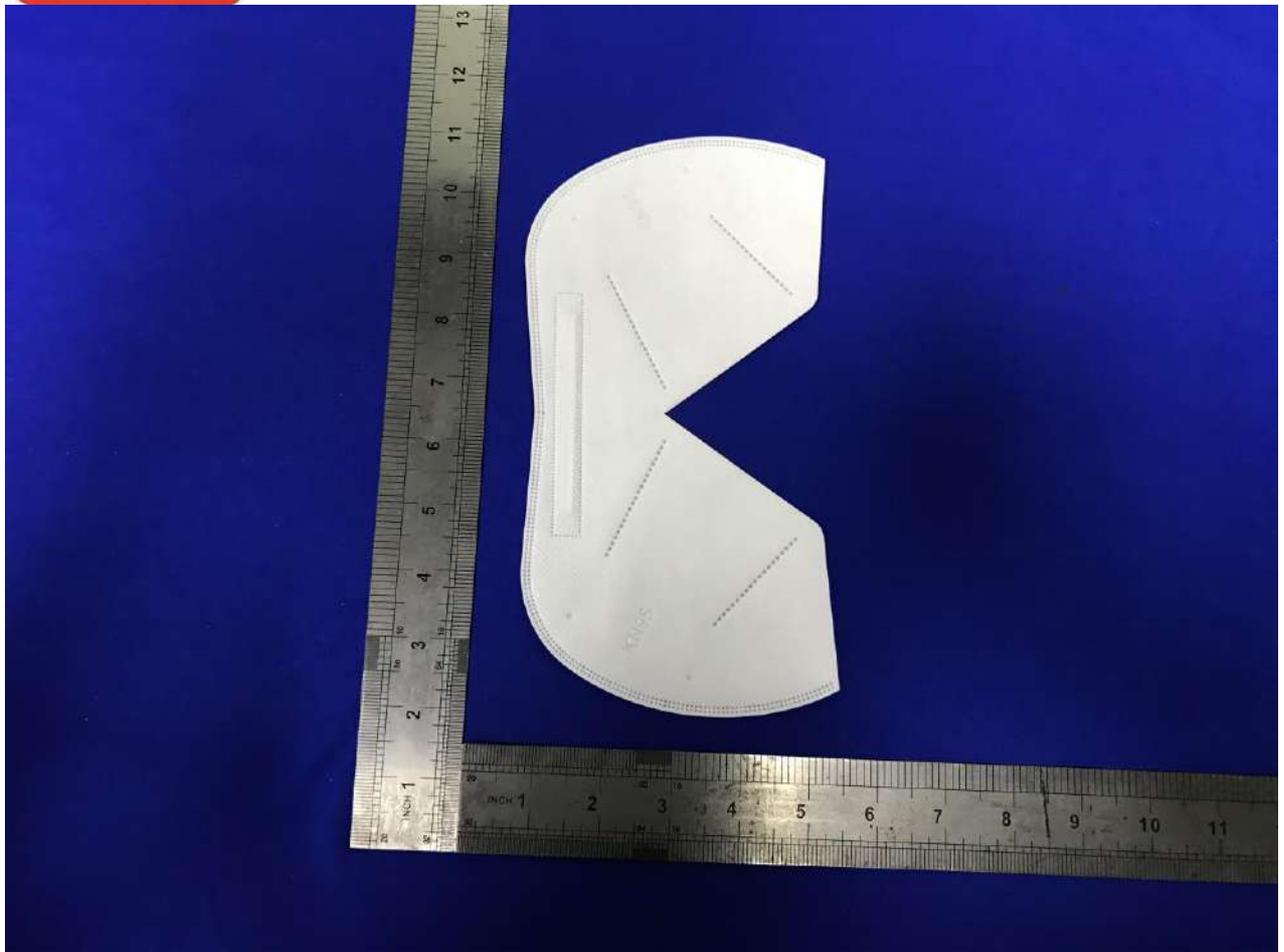


Fig. 2