

## KN95 Sell Sheet

Updated 30-04-2020

### Product Information

- KN95 (FFP2) rated respirator
- 4-Plys Disposable Masks
- CE Certified Product
- FDA Certified
- Standards: Conform to EN149:2001+A1:2009, GB/2626-2016

### Supply Info

- MOQ: > 0.5 Million pcs
- Lead time: n/a
- Daily Production: > 1 Million
- Sku: n/a

### Packaging

- Pieces per box: 10
- Boxes per carton: 84
- Carton dims (cm): L59.0 x W38.5 x H35.5 ( $\approx 0.081 \text{ m}^3$ )
- Carton weight (kg): 8

### **Product Picture:**



Package Picture:



N7



|            |             |                          |            |             |
|------------|-------------|--------------------------|------------|-------------|
| 10 pcs/box | 8.0 kgs/ctn | 0.08 m <sup>3</sup> /ctn | 84 box/ctn | 840 pcs/ctn |
|------------|-------------|--------------------------|------------|-------------|

Certification:



Test Report:



| 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:<br>Particle filtering half mask EN 149, year of publication, classification, option (where 'D' option for a non-reusable particle filtering half mask and mandatory for particle filtering half mask).                                                                                                                                                                                                                                                                                                                                                                          | Pass.                                             |
| Minimal test conditions | EN 149:2001+A1:2009 Clause 7.2             | Unless otherwise specified, the values stated in this standard are expressed as nominal values. Except for temperature limits, values are not stated as maxima or minima shall be to a tolerance of $\pm 5\%$ . Unless otherwise specified, the ambient temperature for testing shall be $(16 \pm 32)^\circ\text{C}$ , and the temperature limits shall be subject to an accuracy of $\pm 1^\circ\text{C}$ .                                                                                                                                                                                                                                                                                                  | Pass. $+5^\circ\text{C}$ to $+38^\circ\text{C}$ . |
| Visual inspection       | EN 149:2001+A1:2009 Clause 8.2             | The visual inspection shall include the marking and the information supplied by the manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pass.                                             |
| Packaging               | EN 149:2001+A1:2009 Clause 8.2             | Particle filtering half masks shall be packaged in such a way that they are protected against mechanical damage and moisture before use.<br>The inspection is carried out where appropriate before test house prior to laboratory performance tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pass.                                             |
| Material                | EN 149:2001+A1:2009 Clause 7.5& Clause 8.3 | A breathing apparatus is adjusted to 25 cycles/min and smoke. The particle filtering half mask is placed on a Sheffield dummy head. For 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 $37^\circ\text{C}$ to allow for warming of the air before it reaches the mouth of the dummy head. The air shall be saturated at $2 \pm 2^\circ\text{C}$ at the mouth of the dummy head in order to prevent excess water spilling on 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                                                                                    |
|---------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                           |                                                        | Expose the particle filtering half masks to the following thermal cycle:<br>a) for 24 h to a dry atmosphere of $(70 \pm 3)^\circ\text{C}$ ;<br>b) for 24 h to a temperature of $(-30 \pm 3)^\circ\text{C}$ ; and allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.<br>The conditioning shall be carried out in a manner which ensures that no thermal shock occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |
| Cleaning and disinfecting | EN 149:2001+A1:2009 Clause 7.6& Clause 8.4& Clause 8.5 | The particle filtering half mask is designed to be reusable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer in accordance with 8.4 and 8.5.<br>With reference to the cleaning and disinfecting the reusable particle filtering half mask shall suit the decontamination requirement of the relevant standard. Testing shall be done in accordance with 8.11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass.                                                                                     |
| Practical performance     | EN 149:2001+A1:2009 Clause 8.11                        | Walking test<br>The subjects wearing normal work clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h for 10 min. The test shall be continuous. The removal of the particle filtering half mask shall be done in accordance with 8.11.<br>Ventilation test<br>The test activities shall be arranged so that the subjects are left for the comments prescribed in the standard.<br>a) walking on a level with headroom of $(1.3 \pm 0.2) \text{ m}$ ;<br>b) crawling on a level with headroom of $(0.70 \pm 0.05) \text{ m}$ for 10 min;<br>c) filling a small bucket (Figure 1, approximate volume = 8 l) with shavings or other suitable material from a bucket which stands 1.5 m high and has an opening at the bottom to allow the contents to be emptied out and a further opening at the top of the bucket for shavings to be returned. The subject shall stoop or kneel as he works and fill the bucket with shavings. He shall then lift the bucket and empty the contents back into the hopper. This shall be done 20 times in 10 min. | Pass. The particle filtering half mask could be used for 10 min. F test: real conditions. |

| Property                       | Method                           | Principle / Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Result                                                 |
|--------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Finish                         | EN 149:2001+A1:2009 Clause 8.2   | Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.<br>Testing shall be done in accordance with 8.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pass. No sharp edges and burrs.                        |
| Total inward leakage           | EN 149:2001+A1:2009 Clause 8.2   | 1) walking for 2 min without head movement or talking;<br>2) turning head from side to side (approx. 15 times), as if inspecting the walls of a tunnel for 2 min;<br>3) moving the head up and down (approx. 15 times), as if inspecting the roof and floor for 2 min;<br>4) the alphabet or an agreed text out for 2 min;<br>5) walking without head movement or talking.<br>The leakage shall be calculated from measurements taken over the last 100 s of each of the exercises to avoid carry over of results from one exercise to the other.<br>$P_{\text{in}} = C_2 \left( \frac{1}{C_1} - 1 \right) \frac{1}{t_{\text{in}}}$<br>where<br>$C_1$ is the challenge concentration<br>$C_2$ is the measured mean concentration in the breathing zone of the test subject<br>$t_{\text{in}}$ is the total duration of inhalation | Total inward leakage is 9%.                            |
| Penetration of filter material | EN 149:2001+A1:2009 Clause 7.9.2 | The filter shall be mounted in a leak-tight manifold. The components of the device that may come into contact with the wearer shall be tested for penetration of sodium chloride aerosol. Testing of penetration and storage shall be done in accordance with EN 13274-7.<br>The penetration of the filter material of the particle filtering half mask shall be in accordance with the requirements of Table 1.                                                                                                                                                                                                                                                                                                                                                                                                                  | Pass. The penetration of sodium chloride test is 3.3%. |
| Compatibility with skin        | EN 149:2001+A1:2009 Clause 7.10  | 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. No irritation and no adverse effect to health.   |

| Property                                  | Method                                      | Principle / Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Result                                                                                                           |
|-------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Flammability                              | EN 149:2001+A1:2009 Clause 7.11& Clause 8.6 | 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 $(60 \pm 5) \text{ mm/s}$ .<br>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 tip of the burner, and the lowest part of the facepiece (when positioned directly over the burner) shall be set to $(20 \pm 2) \text{ mm}$ .<br>The head turned away from the area of the burner, the propane gas is turned on and the pressure adjusted to between 0.2 bar and the gas ignited. By means of a suitable gauge and fine adjustments to the supply valve, the flame height shall be set to $(40 \pm 2) \text{ mm}$ . This is measured with a suitable gauge. The temperature of the flame measured at a distance of $20 \pm 2) \text{ mm}$ above the burner tip by a 1.5 mm diameter mineral insula. The temperature probe, shall be $(800 \pm 50)^\circ\text{C}$ .<br>The head is set in motion and the facepiece once through the flame.<br>The test shall be repeated to enable the facepiece to be made of all materials on the device. Any one component shall be tested through the flame once only. | Pass. The particle filtering half mask does not continue to burn for more than 5 s after removal from the flame. |
| Carbon dioxide content of the inhaled air | EN 149:2001+A1:2009 Clause 7.12& Clause 8.7 | For the particle filtering half mask shall be tested in a leak-tight manner but with the exception that a Sheffield dummy head shall be used.<br>Air shall be supplied from a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke and the exhalation valve shall have a carbon dioxide content of 5%.<br>The CO2 is fed into the breathing machine via a control valve, a compensating bag and two non-return valves. Immediately before the solenoid valve, a small quantity of exhaled air is continuously withdrawn through a sampling line and then fed into the exhaled air via CO2 analysis.<br>To measure the CO2 content of the inhaled air, 5% of the stroke volume of the inhalation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pass. The carbon dioxide content of the inhaled air (dead space) does not exceed an average of 1.0%.             |

| Property             | Method                                      | Principle / Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Result                                                                                                                                                 |
|----------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                             | phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO <sub>2</sub> analyzer. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000 ml.<br>Measure the carbon dioxide content of the inhaled air and record continuously.                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                        |
| Head harness         | EN 149:2001+A1:2009 Clause 7.14             | The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.<br>The head harness shall be adjustable or elastically extending and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total leakage requirements for the device.                                                                                                                                                                                                                                                                                                                                                      | Pass                                                                                                                                                   |
| Field of vision      | EN 149:2001+A1:2009 Clause 7.14             | The field of vision shall be acceptable if determined so in practical tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                                                                                                                         |
| Exhalation valve(s)  | EN 149:2001+A1:2009 Clause 7.15             | A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all circumstances.<br>Exhalation valve(s), if fitted, shall be designed to operate correctly after continuous exhalation flow of 300 l/min over a period of 10 s.<br>The exhalation valve housing, when attached to the faceblank, it shall withstand a tensile force of 10 N applied for 10 s.                                                                                                                                                                                                                                                                                                | Pass                                                                                                                                                   |
| Breathing resistance | EN 149:2001+A1:2009 Clause 7.16& Clause 8.9 | 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 10. The breathing machine adjusted to 25 cycles/min and 2.0 l/stroke or a continuous flow 160 l/min. Use a suitable pressure transducer.<br>Measure the exhalation resistance with the dummy head successively in 5 defined positions:<br>- facing directly ahead<br>- facing vertically upwards<br>- facing vertically downwards<br>- lying on the left side<br>- lying on the right side<br>Test the inhalation resistance at 30 l/min and 95 l/min continuous flow.<br>The breathing resistances apply to valved and | Pass.<br>Inhalation resistance at 30 l/min: <0.7mbar.<br>Inhalation resistance at 95 l/min: <2.4mbar.<br>Exhalation resistance at 160 l/min: <3.0mbar. |

| Property                       | Method                          | Principle / Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Result                         |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
|--------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--|--|-----------------------------|--|--|-------------------|------------|------------|----|-----|-----|----|-----|-----|-----|-----|-----|--|
|                                |                                 | valveless particle filtering half masks and shall meet the requirements of Table 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
|                                |                                 | <table><tr><th colspan="3">Table 2 - Breathing resistance</th></tr><tr><th colspan="3">Breathing resistance (mbar)</th></tr><tr><th>Flow rate (l/min)</th><th>Inhalation</th><th>Exhalation</th></tr><tr><td>30</td><td>0.7</td><td>2.4</td></tr><tr><td>95</td><td>0.7</td><td>2.4</td></tr><tr><td>150</td><td>0.7</td><td>2.4</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                           | Table 2 - Breathing resistance |  |  | Breathing resistance (mbar) |  |  | Flow rate (l/min) | Inhalation | Exhalation | 30 | 0.7 | 2.4 | 95 | 0.7 | 2.4 | 150 | 0.7 | 2.4 |  |
| Table 2 - Breathing resistance |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
| Breathing resistance (mbar)    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
| Flow rate (l/min)              | Inhalation                      | Exhalation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
| 30                             | 0.7                             | 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
| 95                             | 0.7                             | 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
| 150                            | 0.7                             | 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
| Clogging                       | EN 149:2001+A1:2009 Clause 8.10 | <p>Convey dust from the distributor to the dust chamber where it is dispersed into the air stream of 60 m/h.</p> <p>The sample particle filtering half mask in a right manner to a dummy head or a filter holder located in the dust chamber. Connect the breathing machine and pump to the sample and operate for the specified time.</p> <p>The concentration of dust in the test chamber may be measured by drawing air at 2 l/min through a sample filter equipped with a pre-weighed, high efficiency filter (open face, diameter 37 mm) located in 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> | Not applicable                 |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |
| Demountable parts              | EN 149:2001+A1:2009 Clause 7.16 | Demountable parts (if fitted) shall be easily connected and secured, and removed by hand.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Not applicable                 |  |  |                             |  |  |                   |            |            |    |     |     |    |     |     |     |     |     |  |



## 检 验 报 告

### TEST REPORT




报告编号  
REPORT NO. \_\_\_\_\_

产品名称  
NAME OF SAMPLE \_\_\_\_\_

委托单位  
CUSTOMER \_\_\_\_\_

检验类别  
TEST CATEGORY \_\_\_\_\_

浙江省轻工业产品质量检验研究院

(浙江省纺织测试研究院)

Zhejiang Light Industrial Products Inspection and Research Institute

国家纺织服装产品质量监督检验中心 (浙江)

National Textile and Garment Quality Supervision Inspection Center (Zhejiang)

浙江省轻工业产品质量检验研究院

国家纺织服装产品质量监督检验中心 (浙江)

### 检验报告

国纺委字第 \_\_\_\_\_

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|                                                                                                                            |                                                                                                                                                                                                                       |                         |       |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------|
| 委托单位名称<br>Name of Customer                                                                                                 | _____                                                                                                                                                                                                                 | 地址<br>Address           | _____ |
| 生产厂家<br>Manufacturer                                                                                                       | _____                                                                                                                                                                                                                 | 地址<br>Address           | _____ |
| 样品信息<br>Sample Information                                                                                                 | 样品名称 Name of sample: 口罩<br>样品特性 Characteristics: 白色<br>商标 Trademark: _____<br>规格/型号 Specification/Model: _____<br>标准 Level: GB 2626<br>安全技术类别 Category of safety specification: _____<br>样品编号/货号 Art. No.: 2020022004 |                         |       |
| 以下为客户信息 (Abb):                                                                                                             |                                                                                                                                                                                                                       |                         |       |
| 采样方式<br>The test way of sample                                                                                             | 快速                                                                                                                                                                                                                    | 样品数量<br>Sample quantity | 20 个  |
| 接收日期<br>Receiving Date of sample                                                                                           | 2020-04-07                                                                                                                                                                                                            | 检测类别<br>Test Category   | 委托检验  |
| 判定依据<br>Testing/Reference                                                                                                  | GB 2626                                                                                                                                                                                                               |                         |       |
| 检测结论/Test Summary:<br>检测合格/Pass.                                                                                           |                                                                                                                                                                                                                       |                         |       |
| <br>批准日期/Date of Approval: 2020-04-07 |                                                                                                                                                                                                                       |                         |       |
| 备注<br>Remarks                                                                                                              | 1. 样品未使用处理, 数据仅供参考。<br>2. 生产日期: 2020-02-20。                                                                                                                                                                           |                         |       |
| 签字<br>Approved by                                                                                                          | _____                                                                                                                                                                                                                 |                         |       |

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检验报告

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| 序号 | 检测项目        | 检测方法                    | 单位 | 标准要求<br>(GB) | 实测值  | 单项评价 | 结果备注 |
|----|-------------|-------------------------|----|--------------|------|------|------|
| 1  | 过滤效率 (盐性介质) | GB 2626-2006 6.3        | %  | ≥95.0        | 99.2 | 符合   | —    |
| 2  | 呼吸阻力        | GB 2626-2006 6.4<br>6.5 | Pa | ≤300         | 80   | 符合   | —    |
|    |             |                         | Pa | ≤500         | 27   |      |      |

浙江检验检疫工业品检测院

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浙江检验检疫工业品检测院

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检验报告

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样品照片



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浙江检验检疫工业品检测院