

TECHNICAL CONSTRUCTION FILE	
Report Reference No. ....	
Tested by (+ signature) .....	Jessica Meng
Approved by (+ signature) .....	Kevin Shi
Date of issue .....	Mar. 13, 2020
Testing Laboratory .....	Shanghai Global Testing Services Co., Ltd.
Address .....	Floor 2nd, Building D-1, No. 128, Shenfu Road, Minhang District, Shanghai, China.
Testing procedure .....	TL [ <input checked="" type="checkbox"/> ]      TMP[ <input type="checkbox"/> ]      WMT[ <input type="checkbox"/> ]
Applicant's name .....	
Address .....	
Test specification:	
Standard .....	EN 149:2001+A1:2009
Type of Test .....	PST[ <input type="checkbox"/> ]      Registration (type test) [ <input checked="" type="checkbox"/> ]
Non-standard test method .....	N/A
Manufacturer .....	
Address .....	
Product name .....	Kn95 mask
Model No. ....	Class of device: FFP3



<b>Possible test case verdicts:</b>	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P(Pass)
- test object does not meet the requirement .....	F(Fail)
<b>Testing .....</b>	
Date of receipt of test item.....:	Mar. 10, 2020
Date (s) of performance of tests .....	Mar. 10, 2020 to Mar. 13, 2020
<b>General remarks:</b>	
<p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(see Enclosure #)" refers to additional information appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p>	

# **TEST CONDUCTED:**

**Respiratory protective devices — Filtering half masks to protect against particles — Requirements, testing, marking**  
**(EN 149:2001 + A1:2009)**

Test Property	Test Method	Test Principle / Requirements	The Result
<b>7. Requirements</b>			
General	EN149 Clause 7.1	In all tests all test samples shall meet the requirements.	-
Nominal values and tolerances	EN149 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 $(16 - 32) ^\circ \text{C}$ , and the temperature limits shall be subject to an accuracy of $\pm 1 ^\circ \text{C}$ .	Pass
Visual inspection	EN149 Clause 7.3	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Pass
Packaging	EN149 Clause 7.4	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.	Pass
Material	EN149 Clause 7.5	Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.  After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Pass

Test Property	Test Method	Test Principle / Requirements	The Result
		Three particle filtering half masks shall be tested. When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse. Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	
Cleaning and disinfecting	EN149 Clause 7.5	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	Pass
Practical performance	EN149 Clause 7.7	The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.	Pass
Finish of parts	EN149 Clause 7.8	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	Pass
<b>7.9 Leakage</b>			
Total inward leakage	EN149 Clause 7.9.1	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected. The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.	Pass

Test Property	Test Method	Test Principle / Requirements	The Result
Penetration of filter material	EN149 Clause 7.9.2	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.	Pass
Compatibility with skin	EN149 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
Flammability	EN149 Clause 7.11	The material used shall not present a danger for the wearer and shall not be of highly flammable nature. When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame.	<5s Pass
Carbon dioxide content of the inhalation air	EN149 Clause 7.12	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	Pass
Head harness	EN149 Clause 7.13	The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.  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.	Pass
Field of vision	EN149 Clause 7.14	The field of vision is acceptable if determined so in practical performance tests.	Pass
Exhalation valve(s)	EN149 Clause 7.15	A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	N/A
Breathing resistance	EN149	The breathing resistances apply to	Pass

Test Property	Test Method	Test Principle / Requirements	The Result
	Clause 7.16	valved and valveless particle filtering half masks and shall meet the requirements of Table 2.	
7.17 Clogging			
General	EN149 Clause 7.17.1	For re-usable devices the test is mandatory.	N/A

**Sample Photo:**



\*\*\*\*\*End of Report\*\*\*\*\*