



中国认可  
国际互认  
检测  
TESTING  
CNAS L11197

# TEST REPORT

**Report Number**.....: TSGK-2020-0656-T-XG2  
**Applicant's name**.....: UNIVERSAL CERTIFICATION and SURVEILLANCE SERVICES Trade Co.  
**Address**.....: Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No:44/84 Yukarı Dudullu Ümraniye/İSTANBUL – TURKEY  
**Manufacturer name**.....: Guangdong Tengsheng pharmaceutical Technology Co., Ltd.  
**Address**.....: Room 301, No. 7, Linhai North Road, Shatian Town, Dongguan City, Guangdong Province, China  
**Trade mark**.....: /  
**Product name**.....: Filtering half mask  
**Model**.....: TS01  
**Sample grade**.....: FFP3  
**Sample number**.....: 90  
**Sample description**.....: /  
**Receiving date of sample**.....: Jun. 8, 2020  
**Date(s) of tests**.....: Jun. 8, 2020 – Jun. 30, 2020  
**Test conclusion**.....: The sample upon testing, the test clauses meet the requirements of the EN 149:2001 + A1:2009 standard. The details of test results refer to the following.

Approver:

2020.07.3

Reviewer:

2020.07.3

Tester:

2020.07.3



Serial	Test item	Technical requirements	Result - Remark							Verdict
1	Visual inspection	The visual inspection shall include the marking and information supplied by the manufacturer.	Meet requirement							P
2	Packaging	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.	Meet requirement							P
3	Material	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.	Meet requirement							P
4	Cleaning and disinfecting	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.	Not Applicable							N/A
5	Practical performance	Head harness should be comfort	Meet requirement							P
		Fastenings are safe and reliable	Meet requirement							
		Field of vision is acceptable	Meet requirement							
6	Finish of parts	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	Meet requirement							P
7	Total inward leakage	<p>At least 46 out of the 50 individual exercise results shall be not greater than:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 25 % for FFP1;</li> <li><input type="checkbox"/> 11 % for FFP2;</li> <li><input checked="" type="checkbox"/> 5 % for FFP3;</li> </ul> <p>And in addition, a least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 22 % for FFP1;</li> <li><input type="checkbox"/> 8 % for FFP2;</li> <li><input checked="" type="checkbox"/> 2 % for FFP3.</li> </ul>	Exercises	E1 (%)	E2 (%)	E3 (%)	E4 (%)	E5 (%)	TIL (%)	P
			A.R.	0.2	0.1	0.1	0.2	0.2	0.2	
				0.2	0.2	0.2	0.2	0.2	0.2	
				0.2	0.2	0.2	0.3	0.2	0.2	
				0.2	0.2	0.2	0.3	0.2	0.2	
			T.C.	0.2	0.3	0.3	0.5	0.3	0.3	
				0.1	0.2	0.2	0.3	0.2	0.2	
				0.3	0.3	0.5	0.8	0.4	0.5	
				0.2	0.3	0.2	0.3	0.3	0.3	
				0.4	0.5	0.5	0.6	0.4	0.5	
		0.2	0.1	0.2	0.2	0.2	0.2			
Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)	--					



Serial	Test item	Technical requirements	Result - Remark				Verdict
		Luo	128	149	116	54	--
		Chen	124	135	110	49	--
		Liang	119	147	115	58	--
		Chen	115	139	119	55	--
		Yuan	107	125	110	52	--
		Lai	118	135	117	55	--
		Yang	115	127	124	53	--
		Jiang	119	126	116	59	--
		Feng	120	145	119	54	--
		Zeng	109	123	115	52	--
8	Penetration of filter material	Sodium chloride: <input type="checkbox"/> FFP1: ≤ 20 %; <input type="checkbox"/> FFP2: ≤ 6 %; <input checked="" type="checkbox"/> FFP3: ≤ 1 %.  Paraffin oil: <input type="checkbox"/> FFP1: ≤ 20 %; <input type="checkbox"/> FFP2: ≤ 6 %; <input checked="" type="checkbox"/> FFP3: ≤ 1 %.	A.R.	0.1%	0.2%	0.1%	P
S.W.	0.2%	0.4%	0.1%				
M.S.+T.C.	0.3%	0.2%	0.5%				
A.R.	0.1%	0.2%	0.2%				
S.W.	0.3%	0.3%	0.2%				
M.S.+T.C.	0.5%	0.6%	0.3%				
9	Compatibility with skin	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.	A.R.	5 pieces all don't cause irritation.			P
T.C.	5 pieces all don't cause irritation.						
10	Flammability	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	A.R.	Burn for 0s			P
			Burn for 0s				
T.C.	Burn for 0s						
Burn for 0s							
11	Carbon dioxide content of the inhalation air	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	0.41 %		Mean value: 0.42 %	P	
			0.43 %				
			0.43%				
12	Head harness	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.	A.R.	Meet requirement			P
			T.C.	Meet requirement			
13	Field of vision	The field of vision is	Meet requirement				P



Serial	Test item	Technical requirements	Result - Remark					Verdict	
		acceptable if determined so in practical performance tests.							
14	Exhalation valve(s)	Exhalation valve(s) shall function correctly in all orientations	Not Applicable					N/A	
		If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9.	Not Applicable						
		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.	Not Applicable						
		When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s	A.R.	Not Applicable					
			M.S.	Not Applicable					
			T.C.	Not Applicable					
15	Breathing resistance	Inhalation: 30 L/min <input type="checkbox"/> FFP1: ≤ 0.6 mbar; <input type="checkbox"/> FFP2: ≤ 0.7 mbar; <input checked="" type="checkbox"/> FFP3: ≤ 1.0 mbar;	Pos.	A	B	C	D	E	P
				0.4	0.4	0.4	0.3	0.4	
			A.R.	0.4	0.5	0.4	0.5	0.5	
				0.5	0.5	0.5	0.4	0.5	
			S.W.	0.4	0.4	0.4	0.4	0.4	
				0.4	0.5	0.5	0.4	0.5	
				0.5	0.5	0.4	0.5	0.4	
			T.C.	0.5	0.6	0.5	0.6	0.6	
			0.5	0.5	0.5	0.4	0.4		
			0.4	0.5	0.4	0.4	0.4		
		A.R.	1.8	1.9	1.8	1.8	1.8		
			1.9	1.9	1.8	1.8	1.8		
			1.9	2.0	1.8	1.8	1.9		
		S.W.	1.9	1.9	1.8	1.8	1.7		
			1.8	1.7	1.6	1.7	1.7		
			1.9	2.0	1.9	1.8	1.8		
T.C.	1.9	1.9	1.8	1.8	1.9				
	2.0	2.1	1.9	2.0	1.9				
	1.9	1.9	1.8	1.8	1.8				
	2.3	2.4	2.3	2.5	2.3				
A.R.	2.4	2.3	2.3	2.2	2.4				
	2.4	2.5	2.3	2.3	2.4				

Serial	Test item	Technical requirements	Result - Remark					Verdict	
		<input checked="" type="checkbox"/> FFP3: $\leq 3.0$ mbar	S.W.	2.3	2.4	2.2	2.3	2.3	
				2.5	2.5	2.3	2.4	2.4	
				2.4	2.5	2.3	2.3	2.3	
			T.C.	2.6	2.5	2.5	2.3	2.4	
				2.3	2.3	2.4	2.4	2.3	
				2.5	2.5	2.3	2.4	2.3	
			A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side						
16	Demountable parts	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	Meet requirement					P	

**Note:**

The test results presented in this report relate only to the object tested.

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Throughout this report a point is used as the decimal separator.

The test items practical performance, total inward leakage; penetration of filter material, compatibility with skin and field of vision are not within CNAS recognized scope.

This report is the substitute of the report No.TSGK-2020-0656-T-XG1, which is invalidated as this one issued.

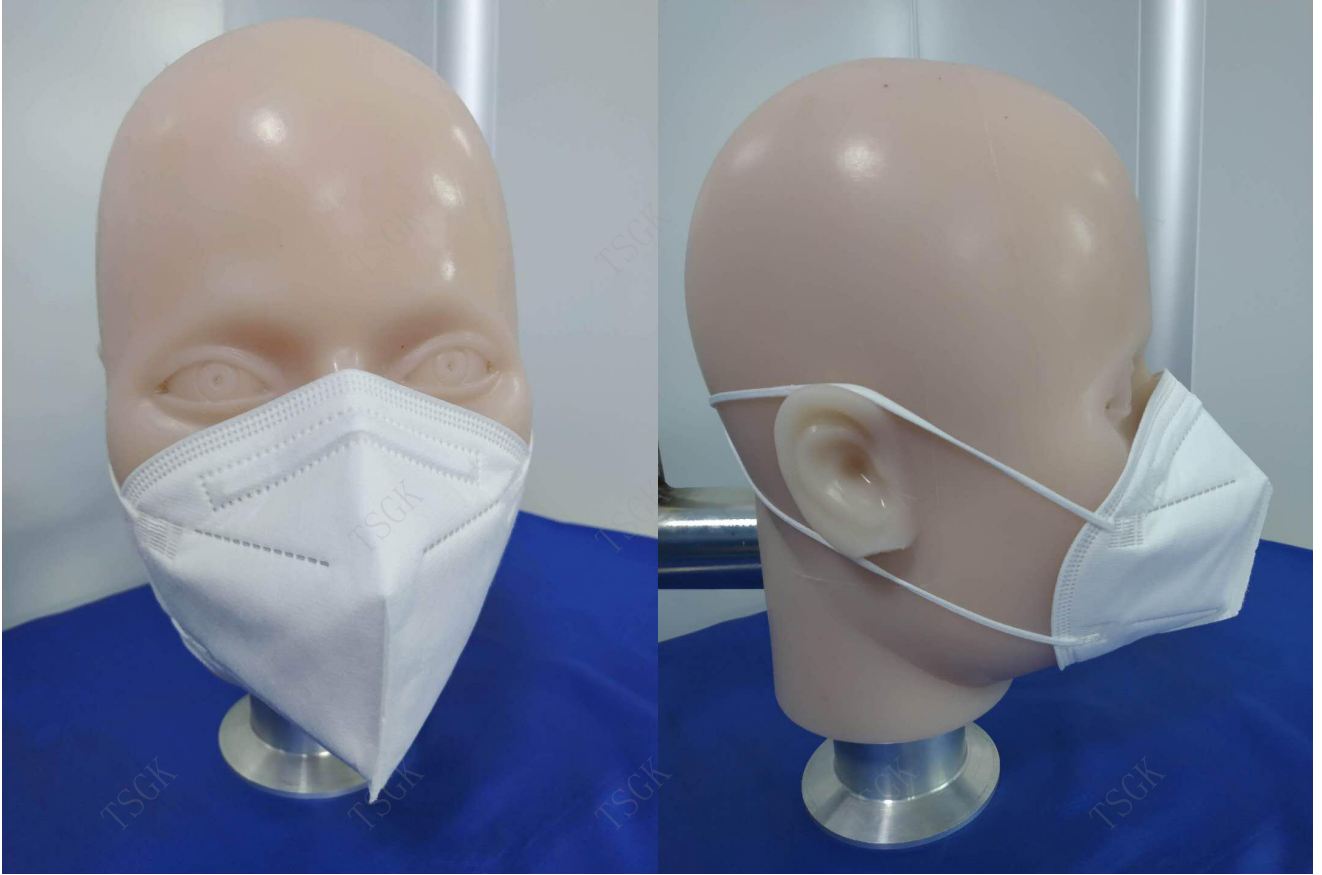
**Possible test case verdicts:**

Test case does not apply to the test object: N/A (Not applicable)

Test object does meet the requirement: P (Pass)

Test object does not meet the requirement: F (Fail)

ANNEX: Photo-documentation



----- End of test report -----