



Prüfbericht-Nr.: <i>Test report no.:</i>	60425394 001	Auftrags-Nr.: <i>Order no.:</i>	244277294	Seite 1 von 13 Page 1 of 13
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2303014	Auftragsdatum: <i>Order date:</i>	05.11.2020	
Auftraggeber: <i>Client:</i>	InSpe Savanoriu ave.178F, Vilnius, Lithuania			
Prüfgegenstand: <i>Test item:</i>	Medical Face Mask			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	BM-920			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	EN 14683:2019+AC:2019			
Wareneingangsdatum: <i>Date of sample receipt:</i>	10.11.2020			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A002946370-001			
Prüfzeitraum: <i>Testing period:</i>	11.11.2020 to 26.11.2020			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	Ranibow Pan	genehmigt von: <i>authorized by:</i>	Xiaojun Ding	
Datum: <i>Date:</i>	27.11.2020	Datum: <i>Date:</i>	27.11.2020	
Stellung / Position:	PE	Stellung / Position:	Reviewer	
Sonstiges / Other:	The test report consists of EN 14683 test report including this cover page (13 pages).			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

EN 14683:2019+AC: 2019 Medical face masks — Requirements and test methods	
Report Reference No. :	See cover page
Date of issue :	See cover page
Total number of pages :	See cover page
Testing Laboratory :	TÜV Rheinland (Shanghai) Co., Ltd.
Address :	No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China
Applicant's name	InSpe
Address :	Savanoriu ave.178F, Vilnius, Lithuania
Test specification:	
Standard :	EN 14683:2019+AC:2019
Test procedure :	Type test
Non-standard test method:	N/A
Test Report Form No. :	EN 14683:2019+AC:2019_B
Test Report Form Originator	TÜV Rh (SZ)
Master TRF :	2020-09
Test item description :	Medical Face Mask
Trade Mark :	
Manufacturer	Changzhou Shuangma Medical Devices Co., Ltd. Sanhekou Development Zone, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. 213115
Model/Type reference :	BM-920
Classification :	Type IIR

List of Attachments (including a total number of pages in each attachment):	
N/A	
Summary of testing:	
Tests performed (name of test and test clause): Clause 5.2.2 Bacterial filtration efficiency; Clause 5.2.3 Breathability; Clause 5.2.4 Splash resistance; Clause 5.2.5 Microbial cleanliness	Testing location: TÜV Rheinland (Shanghai) Co., Ltd. No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China

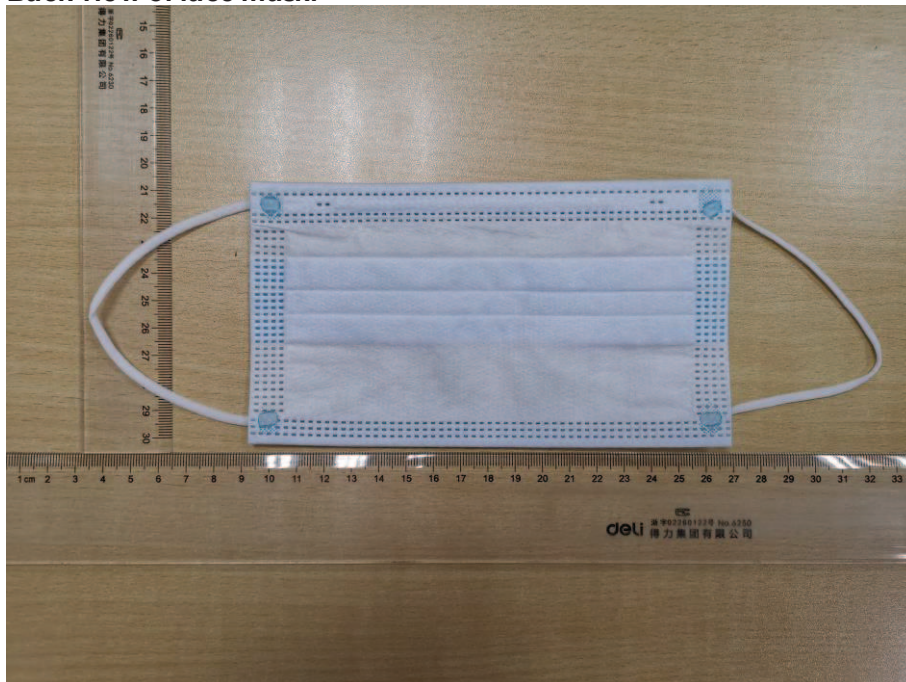
Copy of marking plate	
<p>The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.</p>	
<p>Box:</p> 	

Remark: According to information from applicant, there are 50pcs medical face masks including in final small package during mass production.

Front view of face mask:



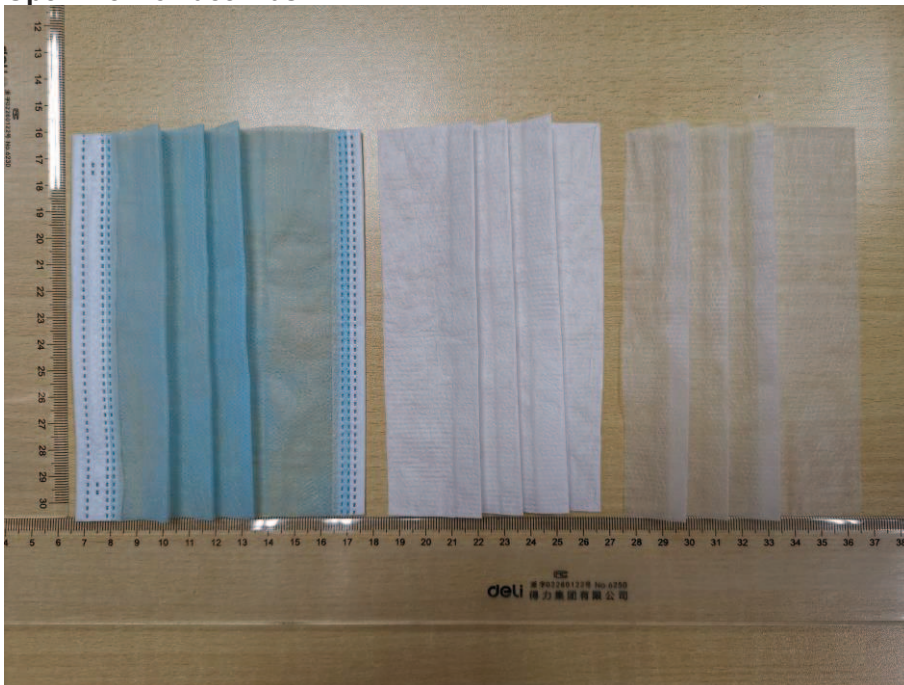
Back view of face mask:



Open view of face mask:



Open view of face mask:



Testing Date of receipt of test item(s) : See cover page Dates of tests performed : See cover page
Possible test case verdicts: - test case does not apply to the test object : N/A - test object does meet the requirement : P (Pass) - test object was not evaluated for the requirement ... : N/E (collateral standards only) - test object does not meet the requirement : F (Fail)
General remarks: "(See Attachment #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. The tests results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory. List of test equipment must be kept on file and available for review. Additional test data and/or information provided in the attachments to this report. Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.
Name and address of factory (ies) : Changzhou Shuangma Medical Devices Co., Ltd. Sanhekou Development Zone, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. 213115
General product information: The submitted samples are type IIR, non-sterile medical face mask which are intended for covering the mouth and nose providing a barrier to minimize the direct transmission of infective agents between staff and patient. This intended purpose is normally to limit the transmission of infective agents from staff to patients in the hospital and other medical settings with similar requirements. A medical face mask with an appropriate microbial barrier should also be effective in reducing the emission of infective agents from nose and mouth of an asymptomatic carrier or a patient with clinical symptoms. The test results are for reference only. Relevant certification may be needed if the mask is intended to be sold in Europe.

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
4	Classification		P
	Medical face masks specified in this European Standard are classified into two types (Type I and Type II) according to bacterial filtration efficiency whereby Type II is further divided according to whether or not the mask is splash resistant. The 'R' signifies splash resistance.	Type IIR	P
5	Requirements		P
5.1	General		P
5.1.1	Materials and construction		P
	The medical face mask is a medical device, generally composed of a filter layer that is placed, bonded or moulded between layers of fabric.	Composed of a filter layer between layers of fabric	P
	The medical face mask shall not disintegrate, split or tear during intended use.	Complied	P
	In the selection of the filter and layer materials, attention shall be paid to cleanliness.	Considered	P
5.1.2	Design		P
	The medical face mask shall have a means by which it can be fitted closely over the nose, mouth and chin of the wearer and which ensures that the mask fits closely at the sides.	Fitted closely over nose	P
	Medical face masks may have different shapes and constructions as well as additional features such as a face shield (to protect the wearer against splashes and droplets) with or without anti-fog function, or a nose bridge (to enhance fit by conforming to the nose contours).	With a nose bridge	P
5.2	Performance requirements		P
5.2.1	General		P
	All tests shall be carried out on finished products or samples cut from finished products.	Complied	P
5.2.2	Bacterial filtration efficiency (BFE)		P
	When tested in accordance with Annex B, the BFE of the medical face mask shall conform to the minimum value given for the relevant type in Table 1.	See appended table 5.2.2	P
	For thick and rigid masks such as rigid duckbill or cup masks the test method may not be suitable as a proper seal cannot be maintained in the cascade impactor. In these cases, another valid equivalent method shall be used to determine the BFE.	Not thick and rigid mask	N/A

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
	When a mask consists of two or more areas with different characteristics or different layer-composition, each panel or area shall be tested individually.	No such condition	N/A
	The lowest performing panel or area shall determine the BFE value of the complete mask		N/A
5.2.3	Breathability		P
	When tested in accordance with Annex C, the differential pressure of the medical face mask shall conform to the value given for the relevant type in Table 1.	See appended table 5.2.3	P
	If the use of a respiratory protective device as face mask is required in an operating theatre and/or other medical settings, it might not fulfil the performance requirements with regard to differential pressure as defined in this European Standard. In such case, the device should fulfil the requirement as specified in the relevant Personal Protective Equipment (PPE) standard(s).	No such respiratory protective device	N/A
5.2.4	Splash resistance		P
	When tested in accordance with ISO 22609:2004 the resistance of the medical face mask to penetration of splashes of liquid shall conform to the minimum value given for Type IIR in Table 1.	See appended table 5.2.4	P
5.2.5	Microbial cleanliness (Bioburden)		P
	When tested according to EN ISO 11737-1:2018 the bioburden of the medical mask shall be ≤ 30 CFU/g tested (see Table 1).	See appended table 5.2.5	P
5.2.6	Biocompatibility		P
	According to the definition and classification in EN ISO 10993-1:2009, a medical face mask is a surface device with limited contact.	In Vitro Cytotoxicity Test, test report No.: SSMT-R-2020-00509-01, Skin Sensitization Test, test report No.: SSMT-R-2020-00509-03, Skin Irritation Test, test report No.: SSMT-R-2020-00509-02, issued by Jiangsu Science Standard Medical Testing Co., Ltd.	P
	The manufacturer shall complete the evaluation of the medical face mask according to EN ISO 10993-1:2009 and determine the applicable toxicology testing regime.		P
	The results of testing should be documented according to the applicable parts of the EN ISO 10993 series.		P
	The test results shall be available upon request.		P
6	Marking, labelling and packaging		P

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
	Annex I, §13, of the Medical Devices Directive (93/42/EEC) or Annex I, §23, of the Medical Device Regulation (EU) 2017/745 specifies the information that should be specified on the packaging in which the medical face mask is supplied.	Checked and complied	P
	The following information shall be supplied:		P
	a) number of this European Standard;	Marked on the label	P
	b) type of mask (as indicated in Table 1).	Marked on the label	P
	EN ISO 15223-1:2016 and EN 1041:2008+A1:2013 should be considered.	Considered	P

EN 14683:2019+AC:2019								
Clause		Requirement + Test			Result - Remark			Verdict
5.2.2		TABLE: Bacterial filtration efficiency (BFE)						P
Batch/ lot no.:	Test Speci- men no.:	Dimension of the test specimen L x W (mm x mm)	test area (cm²)	Flow rate (l/min)	Mean of the total plate counts of the two positive controls	Mean plate count of the negative controls	BFE for each test specimen (%)	Remarks
A00294 6370- 001	1	100×100	50	28.3	1855	<1	99.7	P
	2	100×100	50	28.3	1855	<1	99.7	P
	3	100×100	50	28.3	1855	<1	99.9	P
	4	100×100	50	28.3	1855	<1	99.9	P
	5	100×100	50	28.3	1855	<1	99.9	P
Supplementary information:								
1, Each specimen was conditioned at <u>21.0</u> °C and <u>85.0</u> % relative humidity for <u>4</u> h to bring them into equilibrium with atmosphere prior to testing.								
2, The side of the test specimen was facing towards the challenge aerosol: <u>face</u>								
Remark:								
Limit value: Type I ≥95%; Type II≥98%; Type IIR ≥98%.								

5.2.3		TABLE: Breathability (Differential pressure)				P
Batch/ lot no.:	Test Specimen number- Test area number	Differential pressure for each test area (Pa/cm ²)	The averaged differential pressure for each test specimen (Pa/cm ²)	Flow rate (l/min)	Remarks	
A0029 46370- 001	1-1	28.8	31.3	8.0	P	
	1-2	34.2		8.0	P	
	1-3	32.7		8.0	P	
	1-4	27.6		8.0	P	
	1-5	33.1		8.0	P	
	2-1	31.5	32.8	8.0	P	
	2-2	31.0		8.0	P	
	2-3	36.0		8.0	P	
	2-4	32.3		8.0	P	
	2-5	33.0		8.0	P	
	3-1	27.0	31.5	8.0	P	

EN 14683:2019+AC:2019					
Clause	Requirement + Test			Result - Remark	Verdict
	3-2	34.9		8.0	P
	3-3	29.7		8.0	P
	3-4	29.1		8.0	P
	3-5	36.6		8.0	P
	4-1	28.5	32.6	8.0	P
	4-2	34.1		8.0	P
	4-3	35.3		8.0	P
	4-4	30.8		8.0	P
	4-5	34.1		8.0	P
	5-1	30.5	32.4	8.0	P
	5-2	33.7		8.0	P
	5-3	34.0		8.0	P
	5-4	30.2		8.0	P
	5-5	33.8		8.0	P

Supplementary information:
Each specimen was conditioned at 21.0 °C and 85.0 % relative humidity for 4 h to bring them into equilibrium with atmosphere prior to testing.

Remark:
Limit value: Type I <40; Type II <40; Type IIR <60.

5.2.4	TABLE: Splash resistance				P
Batch/ lot no.:	Test mask no.:	The material of tested mask	Test result (Pass/fail)	Remarks	
A002946370-001	1	Polypropylene fused jet filter layer	Pass	--	
	2	Polypropylene fused jet filter layer	Pass	--	
	3	Polypropylene fused jet filter layer	Pass	--	
	4	Polypropylene fused jet filter layer	Pass	--	
	5	Polypropylene fused jet filter layer	Pass	--	
	6	Polypropylene fused jet filter layer	Pass	--	
	7	Polypropylene fused jet	Pass	--	

EN 14683:2019+AC:2019				
Clause	Requirement + Test		Result - Remark	Verdict
		filter layer		
	8	Polypropylene fused jet filter layer	Pass	--
	9	Polypropylene fused jet filter layer	Pass	--
	10	Polypropylene fused jet filter layer	Pass	--
	11	Polypropylene fused jet filter layer	Pass	--
	12	Polypropylene fused jet filter layer	Pass	--
	13	Polypropylene fused jet filter layer	Pass	--
	14	Polypropylene fused jet filter layer	Pass	--
	15	Polypropylene fused jet filter layer	Pass	--
	16	Polypropylene fused jet filter layer	Pass	--
	17	Polypropylene fused jet filter layer	Pass	--
	18	Polypropylene fused jet filter layer	Pass	--
	19	Polypropylene fused jet filter layer	Pass	--
	20	Polypropylene fused jet filter layer	Pass	--
	21	Polypropylene fused jet filter layer	Pass	--
	22	Polypropylene fused jet filter layer	Pass	--
	23	Polypropylene fused jet filter layer	Pass	--
	24	Polypropylene fused jet filter layer	Pass	--
	25	Polypropylene fused jet filter layer	Pass	--
	26	Polypropylene fused jet filter layer	Pass	--
	27	Polypropylene fused jet filter layer	Pass	--

EN 14683:2019+AC:2019				
Clause	Requirement + Test		Result - Remark	Verdict
	28	Polypropylene fused jet filter layer	Pass	--
	29	Polypropylene fused jet filter layer	Pass	--
	30	Polypropylene fused jet filter layer	Pass	--
	31	Polypropylene fused jet filter layer	Pass	--
	32	Polypropylene fused jet filter layer	Pass	--
Supplementary information: 1, Each specimen was conditioned at <u>21.0 °C</u> and <u>85.0</u> % relative humidity for <u>4</u> h to bring them into equilibrium with atmosphere prior to testing. 2, The description of target area tested: <u>the center of outside</u> 3, Any technique used to enhance visual detection of synthetic blood: <u>none</u> 4, The temperature and relative humidity for testing: <u>21.0 °C</u> and <u>85.0</u> % 5, Description of any pre-treatment techniques used: <u>constant temperature and humidity machine was used</u>				
Remark: Limit value: not required for Type I and Type II; Type IIR ≥16,0.				

5.2.5	TABLE: Microbial cleanliness (Bioburden)				P
Batch/ lot no.:	Mask(under test) no.:	Weight of each mask (g)	Total bioburden per individual mask (CFU)	Total bioburden per gram (CFU/g)	Remarks
A00294637 0-001	1	3.18	<1	<1	P
	2	3.22	<1	<1	P
	3	3.18	<1	<1	P
	4	3.16	<1	<1	P
	5	3.20	<1	<1	P
Supplementary information: Remark: Limit value: Type I ≤30; Type II ≤30; Type IIR ≤30.					

End of test report