

检验检测报告

TEST REPORT



STFWT20210637

Product Name	Respirator Face Mask	_
Trust Unit	D&C srl	
Manufacturer	D&C srl	
Test Category	Entrusted Inspection	



Test Report

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Product Name	Respirator Face Mask	Specification Type	MKMS14741		
Troduct Name	Respirator race mask	Trademark			
Trust Unit	D&C srl	Tel.			
Manufacturer	D&C srl	Sample Grade	FFP2		
Sample Quantity	70 pcs	Sample Receiving Date	2021-01-29		
Test Category	Entrusted inspection	Batch No./Article No	667.		
Samples Conditions	Meet the testing requirements	1			
Document and Decide Accordance	EN 149: 2001+A1: 2009 《Respirator particles-Requirements, testing, mark		ering half masks to protect again.		
Test Conclusion	The samples were tested, the items tested meet the requirements of EN 149:2001+A1:20 standard for FFP2 level. Signature Date: 2021-02-04				
Remarks	The head harness of the mask provided of Compatibility with skin is not recognize. The sample is not marked for reuse (NI). The test conclusion of this report is uninspected items or functions meet the The results apply to the sample as received.	d by the center. The test d R) and does not require to only for the items insperequirements.	lata are only for reference. esting for blocking performance.		

Approver



Examiner



Major tester

丁敝



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7.3 Visual inspection N/R

The visual inspection shall include the marking and information supplied by the manufacturer.

7.4 Package Pass

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.

7.5 Material Pass

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.

Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.

After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps.

When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.

Note1: Refer to Annex A for test data.

7.6 Cleaning and disinfecting

 N/A^2

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.

Note2: Non-reusable respirator.

7.7 Practical performance

Pass³

The particle filtering half mask shall undergo practical performance tests under realistic conditions.

Note3: Refer to Annex A for test data.

7.8 Finish of parts

Pass

Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.



7.9.1 Total inward leakage

Pass4

For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e.10 subjects × 5 exercises) for total inward leakage shall be not greater than:

25% for FFP1, 11% for FFP2, 5% for FFP3.

In addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than:

22% for FFP1, 8% for FFP2, 2% for FFP3.

Note4: Refer to Annex A for test data.

Subject facial dimensions:								
Subject	Face Length	Face Width (mm)	Face Depth (mm)	Mouth Width				
YS	115	159	115	48				
ZJ	118	165	118	51				
WL	117	157	113	49				
LQM	98	141	101	53				
ZYS	99	147	107	47				
WP	119	169	120	55				
YYW	112	151	115	56				
CYW	105	148	108	51				
DX	113	162	116	57				
DHJ	103	149	105	56				

7.9.2 Penetration of filter material

Pass⁵

The penetration of the filter of the particle filtering half mask shall meet the requirements of the table.

	Sodium chloride test 95 L/min	Paraffin oil test 95 L/min
FFP1	≤20%	≤20%
FFP2	≤6%	≤6%
FFP3	≤1%	≤1%

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Note5: Refer to Annex A for test data.

7.10 Compatibility with skin

Pass⁶

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.

Note6: Refer to Annex A for test data.



7.11 Flammability

Pass7

When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5s after removal from the flame.

Note7: Refer to Annex A for test data.

7.12 Carbon dioxide content of the inhalation air

Pass⁸

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume).

Note8: Refer to Annex A for test data.

7.13 Head harness

Pass9

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.

Note9: Refer to Annex A for test data.

7.14 Field of vision

Pass¹⁰

The field of vision is acceptable if determined so in practical performance tests.

Note10: Refer to Annex A for test data.

7.15 Exhalation valve

N/A 11

A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.

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.

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.

When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.

Note11: Valve-less respirator.

7.16 Breathing resistance

Pass¹²

	Maximum permitted resistance (mbar)						
Classification	Inha	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				

Note12: Refer to Annex A for test data.



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7.17 Clogging

N/A 13

7.17.2 Breathing resistance

N/A¹³

Valved particle filtering half masks:

After clogging the inhalation resistances shall not exceed:

FFP1: 4 mbar, FFP2:5 mbar, FFP3: 7 mbar at 95L/min continuous flow

The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow

Valveless particle filtering half masks

After clogging the inhalation and exhalation resistances shall not exceed:

FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow

7.17.3 Penetration of filter material

N/A 13

Classification	Sodium chloride test 95 L/min	Paraffin oil test 95 L/min
FFP1	≤20%	€20%
FFP2	≤6%	≤6%
FFP3	≤1%	≤1%

Note13: Non-reusable respirator.

7.18 Demountable parts

N/A¹⁴

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand

Note14: No demountable parts.

9 Marking

N/R

9.1 Packaging

The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.

- **9.1.1** The name, trademark or other means of identification of the manufacturer or supplier.
- 9.1.2 Type-identifying marking.

9.1.3 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.

9.1.4 The number and year of publication of this European Standard.



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9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.

- **9.1.6** The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.
- **9.1.7** The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d
- **9.1.8** The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". !This letter shall follow the classification marking preceded by a single space.

9.2 Particle filtering half mask

Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:

9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.

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- 9.2.2 Type-identifying marking.
- 9.2.3 The number and year of publication of this European Standard.
- 9.2.4 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and

then: "NR" if the particle filtering

half mask is limited to single shift use only.

Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable.

Example: FFP2 R D.

- **9.2.5** If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space
- **9.2.6** Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.

10 Information to be supplied by the manufacturer

10.1 Information supplied by the manufacturer shall accompany every smallest commercial available package.

10.2 Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.



N/R

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10.3 The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on

- -application/limitations;
- -the meaning of any colour coding;
- -checks prior to use;
- -donning, fitting;
- -use;
- -maintenance (e.g. cleaning, disinfecting), if applicable;
- -storage;
- -the meaning of any symbols/pictograms used of the equipment.
- **10.4** The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.
- 10.5 Warning shall be given against problems likely to be encountered, for example:
- -fit of particle filtering half mask (check prior to use);
- -it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;
- -air quality (contaminants, oxygen deficiency);
- -use of equipment in explosive atmosphere.
- **10.6** The information shall provide recommendations as to when the particle filtering half mask shall be discarded.
- **10.7** For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than one shift.

Annex A: Summarization of Test Data

	Clause				Result	\sim			12	Assessment
E	63/00	Simulated	1#	4	180	No mechanica	l failure	60	100)
	200	wearing	2#	1.25)	No mechanica	l failure	52	1	
7.5	Material	treatment	3#			No mechanica	l failure			Pass
7.3	Material		4#			No mechanica	l failure			1 455
		Temperature conditioned	5#			No mechanica	l failure			~ 0
	m (3	6#		m (No mechanica	l failure		2	63
7.9	Practical	As received	7#		(30)	No mechanica	l failure	~	90	Pass
	performance	Astectived	8#	06	300	No mechanica	l failure	66	300	F 488
			Sample No	Walk	Head (side/side)	Head (up/down)	Talk	Walk	Mean	
		200	9#	4.9	8.7	8.6	8.8	5.0	7.2	9
	3	200	10#	8.0	8.7	4.7	8.8	4.8	7.0	(2) O
	(9)	As received	11#	5.3	8.9	5.6	9.0	9.3	7.6	
	3		12#	8.5	8.7	8.5	4.9	4.5	7.0	
	Total inward		13#	9.1	12.6	9.1	12.7	12.6	11.2	
7.9.1	leakage (%)		14#	8.8	4.8	8.2	5.0	8.9	7.1	Pass
		- 80°	15#	5.7	9.5	5.8	9.2	9.2	7.9	- 87
m	Temperature conditioned	16#	5.6	9.1	9.3	9.2	5.7	7.8	(°)	
	(3)(D)	(88)	1 <i>7</i> #	8.6	8.9	8.8	4.9	4.7	7.2	
			18"	5.6	9.6	5.8	9.2	9.5	7.9	
	20	Individua Individua	47 c	out of the 50 in	dividual exerc				a	

Clause				Result	Assessment
~ (1	(9/		Sodi	um chloride test(95L/min)	1
43	90		19#	0.31	
60		As received	20#	0.39	
~0			21#	0.42	
		Simulated	22#	0.47	
		wearing	23#	0.53	
		treatment	24#	0.51	
		111	25#	0.58	
	. 50	M.S.+T.C.	26#	0.67	
702	Penetration		27#	0.63	(0)
7.9.2	of filter		Pa	araffin oil test(95L/min)	Pass
15	material/%		28#	1.17	
063		As received	29#	1.09	
Do			30#	1.23	
		Simulated	31#	1.28	
		wearing	32#	1.39	
		treatment	33#	1.35	
		AW.	34#	1.45	
	~ (P)	M.S.+T.C.	35#	1.52	
			36#	1.59	
	100		9#	No irritation or any other adverse effect to health	1,00
23/			10#	No irritation or any other adverse effect to health	
163		As received	11#	No irritation or any other adverse effect to health	
0	30		12#	No irritation or any other adverse effect to health	
	Compatibility		13#	No irritation or any other adverse effect to health	
7.10	with skin		14#	No irritation or any other adverse effect to health	Pass
	,		15#	No irritation or any other adverse effect to health	
		Temperature	16#	No irritation or any other adverse effect to health	
		conditioned	17#		
	~ (0,5			No irritation or any other adverse effect to health	
- (3			18#	No irritation or any other adverse effect to health	100
23/	25	As received	37#	burn for 0.5 s	
7.11	Flammability		38#	burn for 0.7 s	Pass
		Temperature	39#	burn for 0.9 s	- 4400
		conditioned	40#	burn for 0.5 s	

Clause				Result	t S		Assessment						
~ <	Carbon		As received										
643	dioxide	41#		42#	43#	Mean value							
7.12	content of the inhalation air/%	0.54		0.54	0.54	0.54	Pass						
				As receiv	'ed								
	. ~	9#		Head harness can be donned sufficiently robust to hold									
	Z(3)	10#		Head harness can be donned sufficiently robust to hold									
	300	11#		Head harness can be donned sufficiently robust to hold		- Ch 4 13							
	Head	Head	12#		Head harness can be donned sufficiently robust to hold								
7.13			Head	13#		Head harness can be donned sufficiently robust to hold			Pass				
7.13	hardness	100	Temperature conditioned										
G	200							14#		Head harness can be donned sufficiently robust to hold			
(G)	95	15#		Head harness can be donned sufficiently robust to hold									
		16#		Head harness can be donned sufficiently robust to hold									
				17#		Head harness can be donned sufficiently robust to hold							
	~ (?)	18#		Head harness can be donned sufficiently robust to hold									
7.14	Field of vision	As	7#	Passed the pr	actical performanc	ce tests	D						
47)	3	received	8#	Passed the pr	actical performance	e tests	Pass						

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C	Clause		~ ~ ~ ~	Result	do	Assessment	
200			Inha	lation	Exhalation		
				30 L/min	95 L/min	160 L/min	
				100	As received		
			A	0.4	1.2	1.9	
			В	0.4	1.2	1.9	
	-	41#	С	0.4	1.2	2.0	
		KIN	D	0.4	1.3	1.9	
	20)		E	0.4	1.2	1.9	
	200		A	0.4	1.2	1.9	
	(98)		В	0.4	1.3	2.0	
	B	42#	C	0.4	1.2	1.9	
	_		D	0.4	1.2	1.9	
			E	0.4	1.2	1.9	
			A	0.4	1.2	1.9	
			В	0.4	1.2	1.9	
	Breathing	43#	C	0.4	1.2	2.0	
7.16	resistance	0	D	0.4	1.3	1.9	200
7.10	(mbar)		E	0.4	1.2	1.9	Pass
	(Simula	ted wearing treatment	E A	
	200		A	0.4	1.2	1.9	
			В	0.4	1.3	2.0	
		44#	C	0.4	1.2	1.9	
	- · · · · · · · · · · · · · · · · · · ·		D	0.4	1.2	1.9	
			E	0.4	1.2	1.9	
			A	0.4	1.2	1.9	
		M	В	0.4	1.2	1.9	
	50)	45#	C	0.4	1.2	2.0	
	200	A see	D	0.4	1.3	1.9	
	(4)		E	0.4	1.2	1.9	
	180		A	0.4	1.2	1.9	
		27	В	0.4	1.3	1.9	
		46#	C	0.4	1.2	2.0	
			D	0.4	1.2	1.9	
		1 50	E	0.4	1.2	1.9	

Clause			Result					
63	20			Inhalation		Exhalation	6)	
	9			30 L/min	95 L/min	160 L/min		
530				Temp	erature conditioned	66		
	15.		A	0.4	1.2	1.9		
			В	0.4	1.2	2.0		
		47#	С	0.4	1.3	1.9		
			D	0.4	1.2	1.9		
	α	1	E	0.4	1.2	1.9		
	Breathing resistance		A	0.4	1.2	1.9	Pass	
7.16			В	0.4	1.3	1.9		
		48#	C	0.4	1.2	2.0		
			D	0.4	1.2	1.9		
			E	0.4	1.2	1.9		
		2	A	0.4	1.2	1.9		
			В	0.4	1.2	1.9		
		49#	C	0.4	1.2	1.9		
	~~	YW	D	0.4	1.2	2.0		
	(0)		E	0.4	1.3	1.9		
7.16	200	A: facing directly ahead						
	Breathing resistance	B: facing vertically upwards						
		C: facing vertically downwards						
	resistance	D: lyin	g on the	left side				
		E: lyin	g on the	right side	and the second s	A		

Remarks: M.S.: Mechanical strength; T.C.: Temperature conditioning; N/R: The clauses were not requested; N/A: Not applicable;

Original Sample



===== End of Report ======



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